19990616.qrp v01_n490.qrl.990616

Date: Wed, 16 Jun 1999 19:05:10 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1490

QRP-L Digest 1490

Topics covered in this issue include:

    by "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
20) [42844] TT2
    by sdk@worldpath.net
21) [42845] Lost Job, now loosing QRP gear
    by Bradford D Bilbrey <bigdawg74@juno.com>
22) [42846] Re: circuit simulation soft ware...question
    by "Jim Kortge, K8IQY" <jokortge@cwix.com>
23) [42847] Fw: Re: Fw: Re: OHR WM-2 Wattmeter
    by william h ross <k6mgo@juno.com>
24) [42848] For Amateur Radio Web Authors
    by "John J. McDonough" <jjmcd@tm.net>
25) [42849] Antenna Claculator
    by "John J. McDonough" <jjmcd@tm.net>
26) [42850] Re: CANADIAN QRP SPRING BOUQUET----- DX T-SHIRT
    by Peter Larsen <larsenp@cadvision.com>
27) [42851] A gud day for the new attic ant...
    by "Rod Cerkoney" <rwc@frii.com>
28) [42852] RFI: 17m beacon freq suggestion for ant test
    by "Rod Cerkoney" <rwc@frii.com>
29) [42853] Re: OHR WM-2 Wattmeter
    by "Art Neilson, KH7PZ" <art@hawaii.rr.com>
30) [42854] Re: Coming to Seattle...
    by "Bill Todd" <bill@willapabay.org>
31) [42855] Re: Coming to Seattle...
    by "Bill Todd" <bill@willapabay.org>
32) [42856] Laser Communications
    by "Chuck Adams K5FO" <adams@ticnet.com>
33) [42857] Tuna TIn Two
    by hamjoel@juno.com
34) [42858] SGC 2020
    by Lagier Gerard <Gerard.Lagier@cnes.fr>
35) [42859] DDS
    by Lagier Gerard <Gerard.Lagier@cnes.fr>
36) [42860] Re: OHR WM-2 Wattmeter
    by "Harry Hurst" <hhurst@delaware.infi.net>
37) [42861] Re: Reflex Receiver Circuits
    by "Harry Hurst" <hhurst@delaware.infi.net>
38) [42862] Re: Astronauts and QRP
    by "Tom Hybiske" <hybiske@generalatronics.com>
39) [42863] Re: Homebrew QSLs
    by Stanley Wilson <microres@crl.com>
40) [42864] Arkansas QRP 40m net
    by James R Giammanco <n5ib@juno.com>
41) [42865] SIX-METER QRP
    by Brad Bradfield <b_bradfield@yahoo.com>
42) [42866] AR QRP net tonight
    by Robsparks@aol.com
43) [42867] Re: [Fwd: TT2 Revival]

    by "Ed Hare, W1RFI" <w1rfi@arrl.net>
44) [42868] Re: TT2
    by "Ed Hare, W1RFI" <w1rfi@arrl.net>
45) [42869] Re: Six Meter QRPers
    by "Richard E. Robinson" <rerobins@email.uncc.edu>
46) [42870] Re[2]: TT2
    by kreinbd@ccgate.dl.nec.com (David Kreinberg)
47) [42871] Re: SIX-METER QRP
    by "Richard Brummer" <obvious@bestweb.net>
48) [42872] TT ll........Ham Com
    by Clifton W Sikes <ab5uacw@juno.com>
49) [42873] JFET SPICE Models
    by Bruce Kizerian <kizerian@ced.utah.edu>
50) [42874] New Antenna a Killer!
    by Jeff Davis <jeff@jehosophat.com>
51) [42875] More JFET SPICE Models
    by Bruce Kizerian <kizerian@ced.utah.edu>
52) [42876] Re: Re[2]: TT2
    by wd8civ@att.net
53) [42877] MILES per WATT
    by N1ODL@aol.com
54) [42878] Re: TT2
    by Mark Sailer <msailer@msailer.rhic.bnl.gov>
55) [42879] Re: [42735] De Maw's 75-meter SSB Superhet Circuit
    by Dan Halbert <halbert@bbn.com>
56) [42880] Re: MILES per WATT
    by Ron Stark <ku7y@dri.edu>
57) [42881] ThighMaster, ButtMaster and now...
    by mike1@urbancom.net (Dinelli, Michael)
58) [42882] Equipment For Sale
    by Patrick Franzis <old_radios@yahoo.com>
59) [42883] Re: [Fwd: TT2 Revival]
    by "Michael A. Gipe" <mgipe@reliablemeters.com>
60) [42884] FS/Trade: Triton IV Station
    by "Tim Cook" <timcook@erinet.com>
61) [42885] Re: OHR WM-2 Wattmeter [measuring power]
    by Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>
62) [42886] Re: OHR WM-2 Wattmeter
    by "George T. Baker" <w5yr@swbell.net>
63) [42887] Re: [Fwd: TT2 Revival]
    by "Ed Hare, W1RFI" <w1rfi@arrl.net>
64) [42888] S.O.S.= Son of Sierra or Something on 17
    by Davewb4@aol.com
65) [42889] Re: ThighMaster, ButtMaster and now...
    by wd8civ@att.net
66) [42890] Re: New Antenna a Killer!
    by wd8civ@att.net
67) [42891] desert ratt receiver

    by lane cox <lanecox@hotmail.com>
68) [42892] 17 meters
    by "Steven Weber" <kd1jv@moose.ncia.net>
69) [42893] Re: OHR WM-2 Wattmeter
    by Stan Goldstein <stan@cruzio.com>
70) [42894] Re: 2N2/40 Question
    by PDouglas12@aol.com
71) [42895] Silver Mica cap dilemma
    by Allan G Taylor <k7gt@qsl.net>
72) [42896] RE: New Antenna a Killer!
    by "Ed Tanton" <n4xy@att.net>
73) [42897] RE: 17 meters
    by "Ed Tanton" <n4xy@att.net>
74) [42898] Antenna Analyzer Diagram Needed
    by Dave Barrett <DBarrett@creo.com>
75) [42899] Re: Silver Mica cap dilemma
    by Bruce Kizerian <kizerian@ced.utah.edu>
76) [42900] Re: New Antenna a Killer\!
    by "Ed Hare, W1RFI" <w1rfi@arrl.net>
77) [42901] Regen fun
    by "Michael A. Gipe" <mgipe@reliablemeters.com>
78) [42902] Re: OHR WM-2 Wattmeter [measuring power]
    by "Art Neilson, KH7PZ" <art@hawaii.rr.com>
79) [42903] Re: 17 meters
    by "George T. Baker" <w5yr@swbell.net>
80) [42904] RE: New Antenna a Killer!
    by wd8civ@att.net
81) [42905] Re: 2N2/40 Question
    by wd8civ@att.net
82) [42906] Re: OHR WM-2 Wattmeter
    by "Art Neilson, KH7PZ" <art@hawaii.rr.com>
83) [42907] FS: IC737 last post
    by Niel Skousen <nskousen@scientech.com>
84) [42908] Re: OHR WM-2 Wattmeter [measuring power]
    by wd8civ@att.net
85) [42909] tuner needed
    by Scott Howell <whowell@hq.nasa.gov>
86) [42910] TT-Two to 49er??
    by Tom M <tjmc@erols.com>
87) [42911] Re: OHR WM-2 Wattmeter
    by Ron Stark <ku7y@dri.edu>
88) [42912] Six Pack xtal tester
    by PDouglas12@aol.com
89) [42913] RE: New Antenna a Killer!
    by "Alex Mendelsohn" <ai2q@ispchannel.com>
90) [42914] Re: TT2
    by "Ed Hare, W1RFI" <w1rfi@arrl.net>
91) [42915] Re: Homebrew QSLs

Date: Tue, 15 Jun 1999 18:58:58 -0400
From: "Vincent Ferme" <vferme@sprint.ca>
To: <qrp-l@lehigh.edu>
Subject: [42825] Fw: Hang it up in the shack!
Message-ID: <003901beb782$a7f47580$2b1105d1@vince>
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I thought it was funny, so here it goes.

73 de Vince, VE3VFN.

> > NOTICE TO ALL VISTORS
> >
> >What you are about to witness is an Amateur Radio Station Licensed
> >As_____ By the Federal Communications Commission in
Washington,
> >D. C. Before you ask the questions, Here are the answers:
> >
> >!..The total cost of this equipment cannot be discussed here as it
creates

> >marital conflicts!
> >
> >2. No, We cannot send a message to your brother in Hong Kong (I suggest
> you call Western Union)
> >
> >3. This is strictly a hobby; We do not have the facilities or the time
to
> >fool around with fixing your TV sets or Hi-Fi (I suggest you see a
> >serviceman)
> >
> >4, Yes, All those antennas in the backyard are essential to the
operation
> of the equipment.
> >
> >5. The farthest station I have contacted has been in the Ubangiland
Islands
> >off of the coast of Southern Kowawowwow.
> >
> >6. The cards on the wall are called QSL cards. They are confirmation of
> >contacts made with other stations.
> >
> >7. It is technically impossible for the station's equipment to interfere
> >with television reception, Telephone or stereo systems. Any
interference
> >problems of that nature are caused by design flaws in the
home-entertainment devices themselves.
> >
> >8. An Amateur Radio Station may only be operated by a highly qualified,
> >technically skilled electronics expert. It takes dedication, training,
> >intelligence, and
> >years of schooling to reach the level of competence that justifies one
to
> >be licensed by the United States Federal Government. Therefore it is
not
> >considered inapproriate to show proper awe, respect and general
> >obsequiousness when I discuss my hobby or operate the numerous
complicated
> >controls
> >
> >Furthermore.......
> >
> >If you are granted the extreme honor of being invited to speak into the
> >microphone, Please observe the following rules:
> >
> > 1. Speak in a low and soothing tone.
> > 2. Do not disagree with me in any manner what-so-ever.
> > 3. Say no Bad words and tell no off color jokes.
> > 4. It is customary for guest to make complimentary remarks about this

> >station and It's licensed Operator when talking to other hams on the
AIR.
> >
> >DO NOT TOUCH ANYTHING!, TURN ANY KNOBS!, SIT ON THE EQUIPMENT!, ETC...I
> >HAVE LOST SEVERAL VISITORS BY ELECTROCUTION IN THE PAST
> >FEW MONTHS.

Date: Tue, 15 Jun 1999 18:23:14 -0500
From: George F Franklin <w0av@juno.com>
To: qrp-l@lehigh.edu
Subject: [42826] Re: Good Shop Magnifier Lamp
Message-ID: <19990615.182315.-233893.0.w0av@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang

This isn't entirely QRP, but it certainly relates.

I'm trying to replace my battered shop bench flourescent (circular) lamp
with 6 inch magnifying lens, but cannot seem to find a supplier.

Hobby Lobby has a tiny lamp for only $20.00, but I want a larger unit.

Anyone know which catalog retailer sells the good ones?

72 de George

Date: Sat, 17 Jul 1999 08:13:49 +0900
From: "Jim Crites" <jimc@msa.attmil.ne.jp>
To: "QRP-List" <qrp-l@lehigh.edu>
Subject: [42827] coax/balun help
Message-ID: <003c01becfe0$dd458fa0$2b1a4ca5@att>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi, I am looking for two different types of coax. One to use in portable operation Like camping or backpacking and one to use at home. Can anyone give me some advice on what types of coax that they think are best.

Also a quick balun question,
At QRP levels is a balun necessary for a dipole ? I'm thinking that if I cut it to be perfectly resonant that a balun won't be necessary. Is this right?

Thanks for any help!!
73
Jim Crites
KF6FCV

Date: Tue, 15 Jun 1999 23:36:16 +0100
From: "Walter D. Amos" <waltk8cv@mpdr0.detroit.mi.ameritech.net>
To: Qrp-l Posts <qrp-l@lehigh.edu>
Subject: [42828] TT-Two on 7.039.25 ....
Message-ID: <3766D560.E593C778@mailhost.det.ameritech.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Go get it .... he he

Walt k8cv

Date: Tue, 15 Jun 1999 19:42:42 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: QRP-L@lehigh.edu
Cc: w1rfi@arrl, org@smtp2.erols.com
Subject: [42829] Tuna Tin 2 on ARRL Members Web Site
Message-ID: <3766E4F2.6E36@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The whole story of the original Tuna Tin 2 revival is found at:

<http://www.arrl.org/members-only/extra/features/1999/0615/1/>

It is well worth the read!

73

Date: Tue, 15 Jun 1999 19:47:03 -0400
From: David Hinerman <wd8civ@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [42830] Re: Homebrew QSLs
Message-ID: <3.0.6.32.19990615194703.0079c160@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 03:50 PM 6/15/99 -0700, you wrote:
>I downloaded the QSL maker program discussed here a while back. Now I'm
>trying to find a reasonably priced source of blank postcard stock. The best
>I can find is $0.20 a card at Staples in packages of 100. Are there are
>better prices available?

Ken,

I should hope so. I used some light card stock that was available at the local office supply store. It's available in colors, and I used a buff color that was just a little darker than a manila file folder. I forget how many cards I could fit on a sheet, but it was at least five. I used Adobe Illustrator to create the card, then used cut-and-paste to duplicate it and arrange it to fit the sheet. This was about 10 years ago. I have one left. (I don't get on the air much.)

>Also, has anyone been successful in producing nice-looking QSLs with a
>monochrome printer? It would be pretty expensive in cartridges to print
>solid color backgrounds with an inkjet. Or so I would rashly assume.

You assume correctly. I bought one of the cheap Canon color printers (BJC-250) that uses the expensive replacement printhead ($32 a pop). Between my wife's greeting cards and the kids' scanned photos of current boyfriends, we clean out a cartridge a week.

(FWIW, the cartridge -is- refillable. I use the Dataproducts color refill kit for the Hewlett Packard 850C. It's $16 at CompUSA, versus $25 for the Canon refill kit by mail order. I've been using the same Dataproducts kit since last February.)

If you want a full-color card, you may want to check into a commercial printer. For the occasional card, a color printer would probably be OK. But a one- or two-color picture on colored card stock wouldn't necessarily

break your bank book. And a well-done design in monochrome can have quite
an impact. (Just ask Ansel Adams.)

Dave

Dave Hinerman - WD8CIV

Date: Tue, 15 Jun 1999 19:45:53 -0400
From: david fouchey <dafouchey@home.com>
To: wd8civ@att.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [42831] Re: email browsing?
Message-ID: <3766E5B1.F7AE32A5@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For my work surfing the web is a vital component of it. We are expected
to use good sense and there is a fire wall which filters out many of the
more, "unique" sites. Drivers, Virus Updates etc. are a simple search or
click away and with over a 30,000 employee base, about 2/3 of them
LAN/WAN connected these come in handy let me tell ya.

wd8civ@att.net wrote:
>
> > Turn your hat around and become the company .
> > NOW WOULD YOU WANT *YOUR* EMPLOYEES SURFING THE WEB?
>
> Walt,
>
> In some instances, yes. (It really -is- part of my job as a
> design engineer. Instead of waiting days or weeks to get data
> sheets and pricing information, I can get it in minutes.)
>
> Seriously, though, I understand why they've done it, and for the
> most part I approve. For example, a recent search on Altavista
> for "flash memory" turned up some of the most interesting
> sites, many of which would expose me and my company to a
> sexual harrassment lawsuit if I should view them at work.
> (Did I say 'expose'? Oops - poor example.(Grin))

yeah but too easy to pass up...

>
> > I'm a liberal Democrat , and hate Republicans ..... he he
> > (what's a REPUBLICAN ever done for YOU) Think about it!!

You mean I'm not the ONLY one in Hamdom????
>
> 2) Taught me electronics.

O good Dem. Elmer started me on my merry way.

> 3) Hired me when I graduated from college.
Me too

>
> Of course, in the interest of equal time, A Democrat has done the
> following for me:
>
 1) Fathered me. AND Gave Birth to me
> 2) Taught me radio. (Including the radical notion of reducing
> power.)
Yup
> 3) Paid my way through college.
Well you could say that since I'm a Democrat and paid my own way WITHOUT
student loans.

> And since the words "Republican" and "Democrat" don't seem to mean
> the same things as they used to, I've given up on trying to use them.
> I prefer the terms "liberal" and "us." (Grin)

Hey Watch it buster, them there is fightin words!<G>
> Dave, WD8CIV
  Dave, WA4EMR Ex WB8AXG
Social Liberal Fiscal Moderate

Date: Tue, 15 Jun 1999 19:51:25 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: qrp-l@lehigh.edu
Cc: w1rfi@arrl.org
Subject: [42832] [Fwd: TT2 Revival]
Message-ID: <3766E6FD.4BCE@erols.com>
MIME-Version: 1.0
Content-Type: message/rfc822
Content-Transfer-Encoding: 7bit
Content-Disposition: inline

Received: from mx02.erols.com ([207.172.3.242]) by mta3.mail.erols.net
          (InterMail v03.02.07.03 118-128) with ESMTP
          id <19990615231447.ZNQV462@mx02.erols.com>
          for <w6toy@mta.mail.erols.net>; Tue, 15 Jun 1999 19:14:47 -0400
Received: from imo22.mx.aol.com (imo22.mx.aol.com [198.81.17.66])
     by mx02.erols.com (8.8.8-970530/8.8.5/MX-980323-gjp) with ESMTP id TAA07029
     for <w6toy@erols.com>; Tue, 15 Jun 1999 19:14:47 -0400 (EDT)
From: W1RFI@aol.com
Received: from W1RFI@aol.com (14385)
     by imo22.mx.aol.com (IMOv20) id nOXGa21389
      for <w6toy@erols.com>; Tue, 15 Jun 1999 19:13:23 -0400 (EDT)
Message-ID: <19fe48a0.24983813@aol.com>
Date: Tue, 15 Jun 1999 19:13:23 EDT
Subject: TT2 Revival
To: w6toy@erols.com
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
X-Mailer: AOL 3.0 16-bit for Windows sub 41
Content-Transfer-Encoding: 7bit

Hi, Bruce,

Check out
<A
HREF="http://www.arrl.org/members-only/extra/features/1999/0615/1/">http://www
.arrl.org/members-only/extra/features/1999/0615/1/</A>. I am not subscribed
to QRP-L from home yet, so can't post; would you mind doing a quick
annoucement on QRP-L so members can see yet another coup for QRP in ARRL
pubs. :-) QRP does have a number of friends at ARRL HQ!

73,
Ed Hare, W1RFI

Date: Tue, 15 Jun 1999 19:02:13 -0500
From: Jim Ek <JIM-EK@worldnet.att.net>
To: "'Low Power Amateur Radio'" <qrp-l@Lehigh.EDU>
Subject: [42833] Astronauts and QRP
Message-ID: <01BEB761.AECE02C0@109.chicago-07.il.dial-access.att.net>

Still studying for my novice license. Question came up while pondering the
unknowns.

Do the Astronauts do QRP when orbitting. Or do the atmospheric
interferences prevent low power signals from penetrating. If the

atmosphere doesn't interfer, they might really get a lot more then a 1,000 miles on a watt.

Have a Great Day!
Jim

Date: Tue, 15 Jun 1999 20:04:09 -0400
From: "Brian Murphy" <brmurphy@netside.com>
To: waltk8cv@ameritech.net, qrp-l@lehigh.edu
Subject: [42834] Re: 4:1 Balun Question
Message-ID: <199906160000.UAA29887@mx.logicsouth.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Walt,
Being no expert, but having read a little with the goal of making some of these, here is my take on all of this (again, Sevick does a fine job of explainging this in the book--this is my layman's disclaimer, OK?).

The 4:1 consists of 2 transmission lines, each of which is a pair of closely spaced wires. The geometry and insulating material between each wire in the pair determines the impedance. So, as someone else stated in this list, the size of the wire, the spacing, and the insulation between the wires of the same transmission line determines the impedance. There is an optimal impedance for the 4:1 balun that will minimize loss and maximize the bandwidth, along with the length of the wound transmission line and the permeability of the toroid material. The mechanism works because the signal traveling down each transmission line sees minimal impedance transformations (which cause reflections and other bad things). This mechanism is quite different from a traditional transformer and takes many by surprise.

Now, I hope I haven't forgotten the original question. For example, Sevick suggests that 16 awg thermalize wire, clamped together tightly about every couple of inches with fiberglass tape strips would exhibit a characteristic impedance of near 100 ohms, the design impedance for a 50:200 balun. But, the original post wanted to go the other way. So the optimum impedance of each transmission line to go the other way will be somewhere between 12.5 and 50 ohms (I don't recall the value, but Sevick discusses it). Sevick suggests winding each transmission line on a separate portion of the toroid, by the way. I would guess that the interaction between windings is minimal if they are wound on separate parts of the toroid.
Hope this helps (but get the real story from Sevick's book)

(Please, if someone is an expert on this, make sure this is correct, OK?)

>From: Walter Amos <waltk8cv@mpdr0.detroit.mi.ameritech.net>
>To: brmurphy@netside.com
>Subject: Re: 4:1 Balun Question
>Date: Mon, Jun 14, 1999, 10:09 PM
>

> Brian .....
>
> Pray tell, how do you keep the IMPEDANCE constant? Is it the turn
> spacing? I ran the wires close together (the two) but the turns (9)
> are spaced around the toroid? Interesting ..... :-)
>
> Walt k8cv
>
> Brian Murphy wrote:
>>
>> Jerry Sevick's recent book from CQ Communications on transmission line
>> transformers offers much analysis and advice on these baluns. Summarizing,
>> he says the key is keeping the impedance of the wires used to wind the
>> toroid at the consistent and proper value and offers additional advice on
>> frequency response as well as the proper value of impedance. You should
>> look at it.
>> hope this helps!
>> ----------
>> >From: qrp-l@Lehigh.EDU
>> >To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>> >Subject: QRP-L digest 1488
>> >Date: Mon, Jun 14, 1999, 7:18 PM
>> >
>>
>> > From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of
>> > Bill B Lazure
>> > Sent: Monday, June 14, 1999 3:32 AM
>> > To: Low Power Amateur Radio Discussion
>> > Subject: 4:1 Balun Question
>> >
>> > Antenna Gurus,
>> >
>> >   I've been playing with an antenna for a few weeks that has
>> > approximately 13 ohms at the feedpoint. I built some 4:1 toroidal baluns
>> > to match these antennas to 50 ohm feedline.
>> >   At lower freqs, up to 20 meters, these work fine. As the frequency
>> > rises above that, they show higher and higher reactance; rising to the
>> > point that at 10 meters, I can't get lower than a 2:1 SWR.
>> >   I assume that either the parallel reactance of the two windings, or

>> > the inductive reactance of the core is what's causing this. I simply
>> > can't figure out which and what to do about it.
>> >   Any ideas?
>> >
>> > 73,
>> >
>> > Bill
>> > W2EB
>> > Syracuse, NY
>

Date: Tue, 15 Jun 1999 20:40:13 EDT
From: AA3BP@aol.com
To: qrp-l@lehigh.edu
Subject: [42835] FS: MFJ Dip Meter Adapter
Message-ID: <8480ae36.24984c6d@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ok, guys.... The recent posts re: the dip adapter for the MFJ-209/249/259
reminds me that I've never used mine. If anyone is interested, I'll deliver
it to your door for $15 including shipping. Or, pick up in Harrisburg, PA
for $12 -- I'm flexible!

Included is the never used MFJ-66 Dip Meter Adapter and manual.

Jim, AA3BP

Date: Wed, 16 Jun 1999 10:48:12 +1000
From: "Ian C. Purdie" <purdic@integritynet.com.au>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [42836] Reflex Receiver Circuits
Message-ID: <3766F44C.2F6EF310@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

A short time ago following the topic of regens, a post was made on
reflex receiver circuits. This got me thinking because I remembered

them. Anyway I did some research and the end result is I have put up a short page discussing the principles of reflex design together with block diagram and a schematic.

For those who want to know as well as those trying to remember go to:

http://www.integritynet.com.au/~purdic/reflex.htm

See if you like the schematic drawing package? - feeback wanted

The reduced battery drain may be ok. But a bit hard to introduce a product detector.

Hope you find it at least of interest.

73's

Ian

Date: Tue, 15 Jun 1999 19:54:12 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: k6mgo@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [42837] Re: Fw: Re: OHR WM-2 Wattmeter
Message-ID: <3766F5B4.ED3E823D@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Won't the meter read the peak voltage of the r-f waveform?

Doesn't that have to be converted to the corresponding rms value in order to use the suggested formula to calculate power?

72/73, George AMA 98452 R/C since 1964

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE

william h ross wrote:
>
> Art, you could do what I did, put your dummy load on the rig, key it and

> with a
> RF voltage probe (IN34 diode and res and cap) use Ohm's law. E squared
> divided by R.
> 72, Bill, K6MGO

Date: Tue, 15 Jun 1999 21:00:43 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [42838] RE: coax/balun help
Message-ID: <102b9c7c.2498513b@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Will the person who sent me an email with the address starting
<<jimc@msa.attmil>>.   PLEASE RESEND. AOL keeps tripping out on me and if
it is in the middle of the download of an email I lose the whole message.
Thanks...Alan KB7MBI

Date: Tue, 15 Jun 1999 20:03:00 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: adams@ticnet.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [42839] Re: The "Calling Frequency" Problem
Message-ID: <3766F7C4.181DDA7@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Might be interesting this Fall/Winter to encourage the Foxes to operate
in the 7030 - 7035 region and scope things out there. Last season was
tough enough at 7040 and above, so maybe the time is right to make a
move.

Don't let this start any threads or flames, but QRPer's could do worse
than to aim for Extra Class tickets.

72/73, George   AMA 98452   R/C since 1964

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE

Date: Tue, 15 Jun 1999 20:30:34 -0400
From: "Dennis & or Jennie" <denjen92@net-link.net>
To: <dtrammel@traveller.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42840] Re: 6M Calling Frequencies, Bandplans, etc.
Message-ID: <000001beb794$306ac8e0$648f59cf@default>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Let me clarify this, I for one agree with band plans. I found the list of QRP frequencies on either the QRP-L page or one of the pages listed at the end of a post from one of the fellow QRP-L readers. If the band plan changed or not I am not up on that. As for Europe, I am not aware of their band plans either. When I do listen to the low end of 6 I leave it on 50.125 when I hear a call I make the contact and move off that freq. I should have researched the frequencies better before posting. Sorry for the bandwidth.
Dennis KB8SOJ

> > No human has ever operated SSB at 50.885 8-). Seriously, this is too
> > high in the band for SSB operation.
>
> I especially hope that no one in NA is operating at 50.885, that's where
> the narrow band R/C channels are (00-09, 50.8-51.0 :10 20kHz channels
> for R/C craft use). I'd hate to see someone killed because the pilot
> had no control of his craft due to his 1 watt (max., most often 600mw or
> less) signal being jammed by another ham at a great distance during a
> propagation peak. Granted, I'm currently flying my planes on the public
> frequencies for fear of this happening during the upswing of the cycle.
> I do normally fly there however, and will be returning to those
> frequencies as soon as the activity level of this cycle starts to
> wane...
>
> 73 & good air,
>
> Don T. AI4CW QRP-L#1670 EM64pw
>

Date: Tue, 15 Jun 1999 21:15:05 -0400
From: "Tim Cook" <timcook@erinet.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42841] CMOS II Keyer Problem ----- THANKS!!
Message-ID: <012c01beb795$ab6537a0$2a6b5acf@timcook.erinet.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks to all who responded about the CMOS II Keyer problem I was having, it
appears that the battery holder is the culprit....
thanks again
Tim
NZ8J

Date: Tue, 15 Jun 1999 21:00:52 -0500
From: Goemans <jgoemans@facstaff.wisc.edu>
To: qrp-l@lehigh.edu
Subject: [42842] TT-2 is on...
Message-ID: <3.0.2.32.19990615210052.006b0918@facstaff.wisc.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi all,
  ED W1RFI has ventured out from under the crud, he is on 7.039.3
again.

72, Paul

Paul Goemans WA9PWP
1508 Sundt Lane Stoughton, Wi 53589

Date: Tue, 15 Jun 1999 22:04:45 -0400
From: "T.J. \"SKIP\" Arey N2EI" <tjarey@home.com>
To: "njqrp@njqrp.org" <njqrp@njqrp.org>, "qrp-l@Lehigh.EDU" <qrp-l@Lehigh.EDU>
Subject: [42843] More Tuna Tin II Happy Dancing.
Message-ID: <3767063D.8BEFC5F6@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

What is almost as much fun as working the original Tuna Tin II???

Getting the really spiffy certificate that ED W1RFI had whipped up for
the occassion. This one is going in a frame for certain.

Thanks again to Ed for making this litlle special event happen.

--
++

  T.J. "SKIP" AREY N2EI   e-mail tjarey@home.com

     Website   http://members.home.net/tjarey

     Snail Mail: PO Box 236, Beverly, NJ 08010

   Specialization is for insects!   LAZARUS LONG

Date: Tue, 15 Jun 1999 22:35:05 -0400
From: sdk@worldpath.net
To: qrp-l@Lehigh.EDU
Subject: [42844] TT2
Message-ID: <3.0.5.32.19990615223505.00878ec0@worldpath.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'm sitting here in NH (6/16-0235) listening to W1RFI on 7.039.4 . What a
super sounding rig! 55-579 consistently. How much power is this little bugger
producing?

Scott - W1STS

Date: Tue, 15 Jun 1999 19:35:39 -0700
From: Bradford D Bilbrey <bigdawg74@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [42845] Lost Job, now loosing QRP gear
Message-ID: <19990615.193632.10150.1.bigdawg74@juno.com>

Friends:
     Due to a loss of business, I was laid off 2 months ago. Have
turned to selling off various items to raise money for health insurance
for the family. I will only list ham related items here, but I do have
some other stuff if interested in a list, I will Email privately.

OHR-400 with keyer option and freq annuciator. was aligned recently by
OHR. $240.00 min.

Yeasu FT-208, new battery, leather holder, speaker mike orignal box and
docs. $100.00

HAM Toolkit & HAM Radio Chestnut CD-ROM $10.00 each

KE7MU
Brad

Date: Tue, 15 Jun 1999 22:38:35 -0400
From: "Jim Kortge, K8IQY" <jokortge@cwix.com>
To: mitch96@pobox.com
Cc: qrp-l@lehigh.edu
Subject: [42846] Re: circuit simulation soft ware...question
Message-ID: <3.0.1.32.19990615223835.00ebfa90@mail49.cwix.com>
MIME-version: 1.0
Content-type: text/plain; charset="us-ascii"

At 11:45 AM 6/13/99 -0400, mitch Ww4mL wrote:
>I have a question rolling around my head here..... a idle mind is a
>devil's workshop.
>can you use one of these simulation software programs to troubleshoot a
>rig? if a certain frequency and voltage is suppose to be at a certain
>point, could you find these numbers by sticking the components into the
>circuit program and cranking it out? I have never used one of these
>programs so..... i was just wondering if this could be a trouble
>shooting tool??
>--
>mitch Ww4mL
>Hollywood, Fla.
>
Hi Mitch....I don't know if anybody tried to answer you question
above, so let me take a whack at it. If you can properly build the
models for the circuit in question, then by all means, it would show
you exactly what the voltages, and currents would be at any point in
the circuit, both ac and dc. The problem becomes one of how much
time and energy are you willing to spend to build the circuit model.
If the simulation package has all of the devices (transistors, op amps,
etc.) that are used in the design, then it is fairly easy to build

the circuit model. But, if you have to build up some of the device models, it can get very complicated, since all of the parasitic capacitances, inductances, and resistances etc. must be incorporated for the device model to act correctly. Often, device models can be obtained from the various manufacturers, and that helps a lot. But some don't have models for their devices, or consider them proprietary, and will not make them available.

So that is it in a nutshell. Hope the answer helps.

72 and kind regards.....Jim, K8IQY

Date: Tue, 15 Jun 1999 19:30:03 -0700
From: william h ross <k6mgo@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [42847] Fw: Re: Fw: Re: OHR WM-2 Wattmeter
Message-ID: <19990615.194049.-152331.0.k6mgo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Won't the meter read the peak voltage of the r-f waveform?

No, George, the meter will read RMS.
72, Bill K6MGO

Doesn't that have to be converted to the corresponding rms value in order to use the suggested formula to calculate power?

72/73, George AMA 98452 R/C since 1964

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE

william h ross wrote:
>
> Art, you could do what I did, put your dummy load on the rig, key it and
> with a
> RF voltage probe (IN34 diode and res and cap) use Ohm's law. E squared

> divided by R.
> 72, Bill, K6MGO

Date: Tue, 15 Jun 1999 22:49:48 -0400
From: "John J. McDonough" <jjmcd@tm.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42848] For Amateur Radio Web Authors
Message-ID: <002401beb7a2$ef3893c0$010044c0@conor-mac-nessa>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Sorry guys, this is one of my pet peeves, and I couldn't hold back!

Puhlllleeeeeze, if you are going to post a schematic on your web page, for heaven's sake, please don't post it as a jpeg. jpeg's are great for photographs, but for schematics they have 2 features you don't want:

 - They are low quality
 - They are QRO (fat and slow!)

When you make a schematic, save it as a GIF. It will be both sharper and smaller. Don't convert your JPG to GIF, you get the worst of both. You can convert a BMP or TIF to a GIF without suffering.

Recently, I've suffered terribly long downloads on pages of some of QRP-L's best and brightest. These long downloads are totally unnecessary, and a very un-QRP-like waste of bandwidth. But generally, hams tend not to be computer guys, I guess.

If you want more details, see http://users.tm.net/jjmcd/Rants.htm

And make your web pages QRP, too!

72/73 de WB8RCR   http://www.qsl.net/wb8rcr/
didileydadidah   QRP-L #1446 Code Warriors #35

Date: Tue, 15 Jun 1999 23:07:38 -0400
From: "John J. McDonough" <jjmcd@tm.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42849] Antenna Claculator
Message-ID: <002c01beb7a5$661e4820$010044c0@conor-mac-nessa>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

For those of you who may have visited my page with Netscape Communicator and
were annoyed to find my little antenna calculator didn't work - well, I
finally figured it out.

I've been very frustrated lately trying to get a Linux firewall together,
and in one of the many tangents I got pulled off to, I happened across the
solution to that problem.

If any of you are having the same problem, Communicator needs your frame
class, even though it's never called from a web page.

Now maybe I'll get motivated to add a few more types of antennas to the
little thing!

72/73 de WB8RCR   http://www.qsl.net/wb8rcr/
didileydadidah   QRP-L #1446 Code Warriors #35

Date: Wed, 16 Jun 1999 04:09:38 +0100
From: Peter Larsen <larsenp@cadvision.com>
To: earlmurf@telusplanet.net
Cc: qrp-canada@lists.gpfn.sk.ca, qrp-l@lehigh.edu
Subject: [42850] Re: CANADIAN QRP SPRING BOUQUET----- DX T-SHIRT
Message-ID: <37671572.25F7C82C@cadvision.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi All:
As I have thanked Earl in private I would like to thank
the Big Three behind this years Spring Bouquet.

It was a lot of fun and I will be back next year.

Also thanks to Mary for sponsoring the shirt. I saw Don's,
VE6EY, and was wanting to get one. (yes Mary, your QSL card is
in the mail ;->)

--
 73 es have fun
 Peter
 VE6YC DO21wc

Artificial intelligence is no match for natural stupidity.

Date: Tue, 15 Jun 1999 22:49:02 -0600
From: "Rod Cerkoney" <rwc@frii.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42851] A gud day for the new attic ant...
Message-ID: <004001beb7b4$2ad745a0$198711d8@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Folks:

Coast to coast with 3 watts & my new attic ant!

Got Ed, W1RFI & the TT abt 0200. REAL ROUGH QSO/CPY, 229 both ways (if I
copied correctly), QRN, RTTY QRM & a dash of QSB.

Then, up on 20 I called CQ ~0400, and an old friend from my Tech+ days
called back, Dean, W7VVW, Quincy, WA. Dean's an ex-Navy radioman with a fist
smooth as glass that can match your speed exactly! I always like to chat
with Dean, he is so easy to copy, excellent work to improve my CW skills. I
don't think Dean is a QRPer or on this list but I found him near 14060
tonight. So, if you hear him give a call & say howdy.

72/3, Rod, N0RC

Date: Tue, 15 Jun 1999 22:57:50 -0600
From: "Rod Cerkoney" <rwc@frii.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42852] RFI: 17m beacon freq suggestion for ant test
Message-ID: <004601beb7b4$ce023500$198711d8@compaq>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Folks:

I've been thinking about how to evaluate this new attic antenna more objectively. The answer seems to be, a beacon experiment. I'd like to do it on 17m, a variant of Chuck's DAFFY/WWW.QRP-L.COM proposal. But what's a good freq. to use? I don't want to clog up a DX lane, QRP calling Freq or other beacon. Suggestions?

I figure I'll do it this weekend, Sat afternoon for abt 2-3 hours--first at 5 watts for half the time then 1 watt for the remaining time. As plans firm I'll post details so those who wish to help will know what's happening & when.

72/3, Rod, N0RC

Date: Tue, 15 Jun 1999 19:46:33 -1000
From: "Art Neilson, KH7PZ" <art@hawaii.rr.com>
To: wyn@worldnet.att.net
Cc: qrp-l@lehigh.edu
Subject: [42853] Re: OHR WM-2 Wattmeter
Message-ID: <3.0.6.32.19990615194633.00889480@pop-server>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hey, thanks for the great info!!! Here's what I did...
I set my scope probe to x10 and clipped it to the positive pin on the bnc connector on the inside of my sw40+ and grounded the probe to the chassis. I set my keyer for handkey and held down a paddle. Found a nice sine wave at 10uS per div and set volts per div at 1. Read 3.4V peak to peak so * 10 (cause of the x10 probe attenuation) that's 34V peak to peak.

34V/2 = 17Vpeak

17Vpeak * .707 = 12.019Vrms

(12.019Vrms ^ 2) / 50ohms

144.456V / 50ohms = 2.88W

If that's right, the OHR meter's not as accurate as my Diamond SX-200.

The OHR WM-2 shows ~2.5W and the Diamond shows ~ 2.75W. I'll make
some more measurements at different output levels to see if the
difference remains constant.

73's!! de KH7PZ Art in Hawaii

At 10:03 PM 6/15/99 -0400, you wrote:
>Art Neilson, KH7PZ wrote:
>>
>> Richard - Thanks for validating my desire to test my OHR WM-2 for
>> accuracy. Most of the folks who replied to my posting thought 1/4
>> of a watt doesn't make much difference. If the unit is off by 1/4
>> of a watt, this will make a huge difference when measuring signals
>> in the milliwatt range. My wattmeter is just like my other test
>> equipment, such as my oscilloscope and freq counter.
>>
>Hi Art,
>   Now that I know you have a calibrated O'Scope. You can set up a test
>using a 50 ohm dummy load after the wattmeter(s). Apply an approx. 2.5
>watt signal. Hopefully it is a pure tone, single sinusoid wave shape.
>Measure the 0-PK (not PK-PK) voltage across the dummy load with the
>scope. Use 1/2 (Epk**2)/50 = (Erms**2)/50 = watts dissipated. Compare
>that to the wattmeter(s)'s indicated value. The one closest is the one
>most accurate. Try different frequencies to see if there is an effect
>on accuracy with frequency. Use the maximum number of divisions on the
>O'scope scale to assist accuracy of interpretation.
>
>72/73,
>Clay N4AOX
>

```
   __
  /  )    _/_  It is a capital mistake to theorise before one has data.
 /--/ __  /    Insensibly one begins to twist facts to suit theories,
/  (_/ (_<__   Instead of theories to suit facts.
                      -- Sherlock Holmes, "A Scandal in Bohemia"
```

Arthur W. Neilson III, KH7PZ
Bank of Hawaii Tech Support

art@hawaii.rr.com

Date: Tue, 15 Jun 1999 23:06:38 -0700
From: "Bill Todd" <bill@willapabay.org>
To: <ke0az@zdnetmail.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42854] Re: Coming to Seattle...
Message-ID: <001e01beb7be$66b108e0$c4added1@bill>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>Hi,
>I'll be in Seattle next week(Sunday thru Friday).
>Is there anything interesting happening
>(hamfests/radio stores/nets/whatever)?
>
>73,
>David

Hi David -

The is the Ham Radio Depot in South Seattle (the Georgetown area). The
store has recently moved from Bremerton to Seattle, so I do not know if
their current addresses is correct in the local phone book.

Also, The NorthWest QRP Club has four nets during the week, and I am certain
that you could be heard on any of them:

Monday night at 6:00 PM PDT on 10122-123
Monday night at 6:30 PM "   on 3710

Wednesday night at 8:00 PM PDT on 3910

Saturday morning at 7:30 AM PDT on 3710

Have fun while you are in Seattle!

CUL, Bill-N7MFB

Date: Tue, 15 Jun 1999 23:09:33 -0700

From: "Bill Todd" <bill@willapabay.org>
To: <wd8civ@att.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42855] Re: Coming to Seattle...
Message-ID: <002501beb7be$ced530e0$c4added1@bill>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>About ten years ago some guys on the Fidonet ham radio echo
>(equivalent to a newsgroup) told me about a restaurant in
>downtown Seattle that had a room reserved for hams at lunchtime.
>
>I can't recall the name of the restaurant, but I believe the room
>was called the W7 Room.

Hi Dave (and group) -

The NorthWest QRP Club used to hold meetings at what used to be called The Doghouse Restaurant in Seattle. It had a room called the "W7" room, and it was GREAT! The restaurant was sold to someone else, and remodeled. I do not believe the radio room is still there.

Has anyone been back to what used to be called The Doghouse? Perhaps they reopened the room - I don't really know.

CUL, Bill-N7MFB

Date: Wed, 16 Jun 1999 02:26:18 -0500
From: "Chuck Adams K5FO" <adams@ticnet.com>
To: qrp-l@lehigh.edu
Subject: [42856] Laser Communications
Message-ID: <E10u8zw-0001QS-00@pop3.ticnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Gang,

If you have a good library nearby check for a document

in the government section.

AFCRL-68-0367 Multiple Scattering of Laser Light in the Atmosphere
by Plass, Kattawar, and Adams   Dallas, TX July 1968

This was some contract work for the Air Force back in olden days
of yesteryear. I leave it as an exercise for what this is used
for.

I'd make a copy for interested parties but my copy is an old
faded thermal copy and I don't think it will scan and I don't
feel like typing the 21 pages again. :-) Once was enough.

I still have the program and it was never classified as far as
I know and I'm sure interested parties would have notified me
if it was otherwise.

What I could do is tell you how much a beam is attenuated in
certain atmospheric conditions over a line-of-site path (LOS)
for a given wavelength from the IR to the UV. Those little
0.5mW pointers can go pretty far under clear conditions in
the red. One of the reasons why sunsets are predominantly
red light is the low attenuation and scattering of red light. See
Journal of Atmospheric Sciences, Vol 31, No 6, September 1974,
pp 1662-1674 for what happens at twilight. It is this work
that made the Undergraduate Physics books I am told.

FYI

Chuck Adams K5FO adams@ticnet.com http://www.qsl.net/k5fo/

Date: Tue, 15 Jun 1999 22:27:11 -0400
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [42857] Tuna TIn Two
Message-ID: <19990616.043521.-310459.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

HI Y'all

hey I worked the tuna fish!!!!! errrrr tuna tim .... no that's not

it..... the tuna tin two..... yea that;'s it...
thanks Ed u were a good solid s7 and 599 up heah in Maine
     .85 whats doing fb for u

My cajun mama was wondering what U did with the tuna???? she's got a
hungry lad to feed , u kneaux...

joel ke1la
in maine
and happy about
but dont' tell anyone...

Date: Wed, 16 Jun 1999 11:43:38 +0200
From: Lagier Gerard <Gerard.Lagier@cnes.fr>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@lehigh.edu>
Subject: [42858] SGC 2020
Message-ID: <7E010CD07C1BD311AB9000805FCCF62E068B97@thebes.cst.cnes.fr>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

We are 2 French HAM (F6BLK and myself F6EHJ) who bought 3 SGC 2020 =
recently.
We had to face some problems as soon as we received the rigs.

Does somebody share this kind of experience ?

Best 73.

G=E9rard

Date: Wed, 16 Jun 1999 11:48:35 +0200
From: Lagier Gerard <Gerard.Lagier@cnes.fr>
To: "'QRP-L'" <qrp-l@lehigh.edu>
Subject: [42859] DDS
Message-ID: <7E010CD07C1BD311AB9000805FCCF62E068B98@thebes.cst.cnes.fr>
MIME-Version: 1.0

Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

I am building a HAM receiver using a DDS AD9850 and software controlled =
with
a PIC 16F84.
The 1st IF uses an homebrew 6MHz 5 poles Xtal filter, the second IF, a
serial pair of Collins mechanical filter @ 500kHZ.

I will be very glad to exchange information, tips...about this project.

G=E9rard

Date: Tue, 15 Jun 1999 11:13:23 -0400
From: "Harry Hurst" <hhurst@delaware.infi.net>
To: <wlreed@viaduct.custom.net>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [42860] Re: OHR WM-2 Wattmeter
Message-ID: <000201beb785$cf4e4860$364b9ace@hhurst>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>will find that it is one of the more difficult measurements. Fortunately,
>it does not matter. If you think you are running [say] 0.95 watts, or 950
>mw, and it fact you are [horrors!!] running 1.05 watts, the reality of it
is
>that the communication would have had the same results and same signal
>report at EITHER level.

I couldn't work a friend of mine. He was hearing me, but I couldn't hear
him. He built a simple dummy load/watt meter (maybe cost him $1), and found
he was putting out under .1 watt instead of the 2 watts he expected. I'm
sure the measuring system he used wasn't all that accurate, but it did the
job. This is a good application for a wattmeter. I'd bet that his readings
aren't all that different from the WM-2.

Date: Tue, 15 Jun 1999 11:21:29 -0400
From: "Harry Hurst" <hhurst@delaware.infi.net>
To: <purdic@integritynet.com.au>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42861] Re: Reflex Receiver Circuits
Message-ID: <000301beb785$d0e8be80$364b9ace@hhurst>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Thanks Ian, I posted the question on reflex receivers. I was listening to my ugly-built genny, and thinking about ancient times, when the best transistor I could get was a 2N170.
I'll be using the link, thanks.... and maybe building a reflex to sit next to the genny.

de WA3PTG
Friend of Mick the Australian Cattle Dog #3 (his owners are #1 and #2)

 >A short time ago following the topic of regens, a post was made on
>reflex receiver circuits.

Date: Wed, 16 Jun 1999 07:37:07 -0400
From: "Tom Hybiske" <hybiske@generalatronics.com>
To: <JIM-EK@worldnet.att.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42862] Re: Astronauts and QRP
Message-ID: <028801beb7ec$938cddc0$8c68f326@generalatronics.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

.....
> Do the Astronauts do QRP when orbitting. Or do the atmospheric

> interferences prevent low power signals from penetrating. If the
> atmosphere doesn't interfer, they might really get a lot more then a
1,000
> miles on a watt.
>
Jim, I'm not sure whether you mean for their shuttle/ground control com, or for amateur communications. Back in the mid eighties, one of the shuttle's did some 2 meter FM communications with the general amateur population. I remember hearing him report crossing the Florida cape while I was in located Pennsylvania. I know he was running 2 watts to an antenna suction cupped to a window. He was full quieting for a brief time until he went over the horizon. I don't know how it would it work for H.F. though. I'm not sure what side of the f layer the shuttle operates.

K3GM

Date: Wed, 16 Jun 1999 04:28:18 -0700 (PDT)
From: Stanley Wilson <microres@crl.com>
To: Ken Knecht <kenk@primenet.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [42863] Re: Homebrew QSLs
Message-ID: <Pine.SUN.3.91.990616042401.21805A-100000@crl.crl.com>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Ken,

Some of the best QSL cards I have received over the years including many DX ones were homebrew.

I use to silk screen my own cards. Would run off a 100 at a time.

A good source for card stock is your local printer. He will cut them to size and has various grades of paper. The grade of paper will determine the cost. I usually purchased 500 to 1000 at a time. 20 cents a card is a very high price should be able to do much better. Try one of the business card shops that really print the cards and do not sub contract to another shop in town.

de stan ak0b

Date: Wed, 16 Jun 1999 05:49:27 CDT
From: James R Giammanco <n5ib@juno.com>

To: qrp-l@Lehigh.edu
Subject: [42864] Arkansas QRP 40m net
Message-ID: <19990616.054938.7471.0.N5IB@juno.com>

I think I've been drafted by "Uncle Bob" to be NCS....

I'll try to call the AR QRP net tonight at 7:30 CDT on 7042 +/-.
Will use a TS430S (w/straight key) at 5 W to an inverted vee roughly
East-West about 15 ft high atop One QRP Plaza, in our fair city, Baton
Rouge, LA.

I'll call "QST AR QRP net de N5IB pse QNI K"
please respond with your complete call

Three notes:
(1) the net will likely be a bit slower tonight - that's me

(2) the past two nights we've had local lightning storms that forced me
to QRT, with more predicted today, so if you don't hear me, that might be
the reason. If so, why don't one of you other "regulars" jump in and give
it a try as NCS

(3) I don't have a full roster list, so I'll probably ask for name and
QTH from almost everyone... don't be surprised even if you are a regular

Wish me luck, haven't been an NCS, phone or CW, since the old LA Slow Net
(LSN) of the early 1980's.....

72,
Jim N5IB

Date: Wed, 16 Jun 1999 05:39:59 -0700 (PDT)
From: Brad Bradfield <b_bradfield@yahoo.com>
To: qrp-l@lehigh.edu
Subject: [42865] SIX-METER QRP
Message-ID: <19990616123959.25240.rocketmail@web204.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hello y'all - -

Let me throw something out there for anyone interested in six-meter operation. I was very active on six-meters back in the earlier 80's, and never, repeat, NEVER, ran more than 10 watts PEP. With that I was able to easily work all over the US, Canada, and South America. I also got VUCC, and had about 30 states confirmed. This was at the low part of the sunspot cycle when there were no graddaddy F2 openings on which to work Europe, Africa, and so on, but they can be done too with only 10 Watts. In short, if you want to work six-meter QRP, get down there on the calling frequency and get in the fray with everyone else. BTW, the calling freqquency used to be 50.110, but think it's moved up to 50.125, leaving 50.110 as the DX window. Don't think you can't compete there as a QRP station, because you can.

Oh, well.

72's es 73's,

Brad, W5CGH

===
Brad Bradfield, PE Systems Engineer
W5CGH (ex WB0CGH) Raytheon Systems Company

Real men talk with their fingers!!

NORTEX QRP-L #377 QRP-ARCI SMIRK #4906
ARS #72 NORCAL Austin QRP Club #e

Date: Wed, 16 Jun 1999 09:17:30 EDT
From: Robsparks@aol.com
To: qrp-l@lehigh.edu
Subject: [42866] AR QRP net tonight
Message-ID: <6eee514d.2498fdea@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

AR-QRP 40 m Net Wednesday Night

The AR-QRP 40 m net is tonight, Wednesday, at 0030Z (7:30 CDT) at 7.042 MHz.

Bob, AB5ZD is NCS and will be calling "QST AR QRP NET de NQ5RP PSE QNI". At that time, please send your full call. When I copy it, I will return your call and AS (stand by) while more call in. When I have the list, I will start at the top and go down the list for reports and comments. If you are trying a new rig or antenna, or went to Hamcom, tell us about it! This is a fun and informal net, and is a low hassle way to learn how to check into a net. You don't need to be a member of the AR-QRP Club to check in. We welcome new check-ins!

72,

Bob AB5ZD

Date: Wed, 16 Jun 1999 09:30:20 -0400
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>
To: qrp-l@lehigh.edu
Subject: [42867] Re: [Fwd: TT2 Revival]
Message-ID: <3767A6EC.527F@arrl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Bruce Muscolino wrote:

> Check out
http://www.arrl.org/members-only/extra/features/1999/0615/1/

This is the writeup ARRL just published on the ARRL Web Extra. I know that not all folks here are League members and not all members can access the Web site, so if anyone needs a paper copy, send me an SASE and I will send it along. Normally, I can't reprint published material, but I wrote this one for you all, so it only seems appropriate. :-)

73,
Ed Hare, W1RFI
ARRL Lab

Date: Wed, 16 Jun 1999 09:34:41 -0400
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>
To: qrp-l@lehigh.edu
Subject: [42868] Re: TT2
Message-ID: <3767A7F1.65EB@arrl.net>

Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

sdk@worldpath.net wrote:

> I'm sitting here in NH (6/16-0235) listening to W1RFI on 7.039.4 . What a
> super sounding rig! 55-579 consistently. How much power is this little bugger
> producing?

> Scott - W1STS

Hi, Scott,

Yesterday, I put in a minor mod as suggested in the original article to raise the power. I have also been powering it off of 2 series connected 9 V batteries. I measured 850 milliwatts yesterday in the Lab. The antenna is an inverted vee up about 40 feet or so.

Now, if I can only do something about "glass arm." My fist was a bit shaky by the end of the night from that old hand key. :-)

Thanks for the QSO.

73,
Ed Hare, W1RFI

Date: Wed, 16 Jun 1999 09:47:59 -0400
From: "Richard E. Robinson" <rerobins@email.uncc.edu>
To: qrp-l@lehigh.edu
Cc: w5usj@globeco.net
Subject: [42869] Re: Six Meter QRPers
Message-ID: <v03102802b38d5997ee8c@[152.15.144.71]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Chuck, W5USJ, writes;

>During strong Es openings, most any antenna will often work. My contacts
>have included ops using dipoles, TV antennas, scanner antennas, and a
>length of wire conected to the rig on the ops garage test bench.

My first QRP rig was a Heathkit Sixer that I got for Christmas in 1963 from my parents. My best DX with the Sixer was snagged one afternoon after

school, I called CQ on what appeared to be a dead band and worked a VE1 using my military surplus ground plane. Not too bad for 5W AM from NC. It's no wonder 6 meters is known as "The Magic Band".

I've been hooked on QRP ever since, but just got back on 6 after a 30 year absense with a Ten Tec transverter and my Argonaut 505. I've heard some digital signals around 50.07 but no SSB or CW QSOs yet.

72/73,

Rick kf4ar

Date: Wed, 16 Jun 1999 08:54:06 -0500
From: kreinbd@ccgate.dl.nec.com (David Kreinberg)
To: "Ed Hare; W1RFI" <w1rfi@arrl.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42870] Re[2]: TT2
Message-ID: <0015BBC7.4159@ccgate.dl.nec.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part
Content-Transfer-Encoding: 7bit

Ed wrote:

Now, if I can only do something about "glass arm." My fist was a bit shaky by the end of the night from that old hand key. :-)

Thanks for the QSO.

73,
Ed Hare, W1RFI

Ed and all,

When I followed the Philadelphia Phillies in the '70's, their ace pitcher Steve Carlton used to do a tortuous excersise to strengthen his arm.

He would put gallons of uncooked rice in a large bucket and

plunge his arm into it, reaching to touch the bottom. He would
continue this for hours at a time.

Maybe we could adopt this as "the official arm exercise" of
QRP-L :^)

73 de Dave, NR3E

Date: Wed, 16 Jun 1999 09:55:42 -0400
From: "Richard Brummer" <obvious@bestweb.net>
To: <b_bradfield@yahoo.com>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [42871] Re: SIX-METER QRP
Message-ID: <00cf01beb7ff$ede1e320$4405b3d8@default>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Brad,

You're bringing back memories of my 6-meter AM days on Long Island (NY) in
the late '60s. I managed to work 38 states, and a few countries in the
Western Hemisphere. Rig was a Lafayette HE-45b (15 watts), antenna was a
3-element Telrex beam. Houses were 20 feet apart, and I totally wiped out
Channel 2 for my closest neighbor. We were good friends, and he thought it
was a good hobby. I equipped his TV set with a high-pass filter, and
bye-bye TVI.

In the early 70's I "graduated" to SSB and a Heathkit SB-110A -- much
better.

Thanks for "jogging" the memory.

73,
Dick K2REB

Date: Wed, 16 Jun 1999 08:54:39 -0500
From: Clifton W Sikes <ab5uacw@juno.com>
To: qrp-l@Lehigh.EDU

Subject: [42872] TT ll........Ham Com
Message-ID: <19990616.085440.6646.2.ab5uacw@juno.com>

I got Ed last night, and heard Paul and several others working him.
Sounds like you had a busy night Ed. Thanks for letting us experience
this piece of history.

Ham Com, what can I say that hasn't been said? Everyone is right....it's
the people that make this thing what it is. I now have Bromley-esque
memories........
meeting Gody, Tim Pettibone, Dr. Megacycle, Paul Harden, Jim Kortge, Mike
Gipe, Dave Fifield, the English Gents, and best of all Jim Cates. Sitting
in the corner of the hospitality room with Jim was a dream come true.
Thank you all for making the trip to Cowboy Country. I'll second what has
been said, make the effort to attend one of the big QRP affairs. You will
go away with a BIG smile on your face.

I'm on 30m, mobile, every morning and noon. Give me a call, if you hear
me.

72,

Clif AB5UA

Date: Wed, 16 Jun 1999 08:02:48 -0600
From: Bruce Kizerian <kizerian@ced.utah.edu>
To: qrp-l@Lehigh.EDU
Subject: [42873] JFET SPICE Models
Message-ID: <3767AE88.1B38F8A3@ced.utah.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Looking for SPICE models for MPF102 and 2N3819 JFET's. Can
anyone help?

Bruce kk7zz

Date: Wed, 16 Jun 1999 09:07:47 -0500
From: Jeff Davis <jeff@jehosophat.com>
To: QRP-L List <qrp-l@lehigh.edu>
Subject: [42874] New Antenna a Killer!
Message-ID: <19990616090747.A3017@jehosophat.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Folks,

I had my Ten Tec 1340 on the bench yesterday. Being on vacation this
week I have been trying to catch up on a little work in the shack. I
finally decided to replace that horrible power connector on the 1340
with something a little more respectable.

When I built it back in February I adjusted it to operate in the
Novice band. I have it set to cover from 7.080 to 7.150.

With it on the bench I hooked it up to my Quantum battery just to make
sure it still was working after being shelved for a few months. With
power and the antenna connected I tuned around and there was a fellow
in Pennsylvania calling CQ. I plugged the key in and called him and
contact was made.

After that, I worked stations in Georgia, Alabama, Tennesee, Ohio,
Michigan and Rhode Island all with just 2 watts out...

While smiling to myself and thinking I really can still use a straight
key, I started to unhook the cables from the rig. That's when I realized
that the 1340 wasn't connected to the R7000, it was connected to the
2 meter antenna in the attic!

My NEXT project will be to mark all the cables running around here but I
just can't help thinking this QRP stuff is too easy. Working them with 2
watts into the wrong antenna is like shooting fish in a barrrel! :-)

--
72 de Jeff, N9AVG
QRP-L 1640
http://jehosophat.com

Date: Wed, 16 Jun 1999 08:06:24 -0600
From: Bruce Kizerian <kizerian@ced.utah.edu>
To: qrp-l@Lehigh.EDU
Subject: [42875] More JFET SPICE Models

Message-ID: <3767AF60.F561EE8E@ced.utah.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Also looking for SPICE model for J310.

Bruce kk7zz

Date: Wed, 16 Jun 1999 14:11:40 +0000
From: wd8civ@att.net
To: qrp-l@lehigh.edu (QRP-L Mailing List)
Subject: [42876] Re: Re[2]: TT2
Message-ID: <19990616141244.PZPA12284@webmail.worldnet.att.net>

>
> Ed wrote:
>
>
> Now, if I can only do something about "glass arm." My fist was a bit
> shaky by the end of the night from that old hand key. :-)
>
> Thanks for the QSO.
>
> 73,
> Ed Hare, W1RFI
> --------------
> Ed and all,
>
> When I followed the Philadelphia Phillies in the '70's, their
> ace pitcher Steve Carlton used to do a tortuous excersise to
> strengthen his arm.
>
> He would put gallons of uncooked rice in a large bucket and
> plunge his arm into it, reaching to touch the bottom. He would
> continue this for hours at a time.
>
> Maybe we could adopt this as "the official arm exercise" of
> QRP-L :^)
>
> 73 de Dave, NR3E
>

Dave,

Can't we just turn up the tension on the ol' J-38? If we're going to spend hours exercising, we might as well make a few contacts in the process.

If we can just get Suzanne Sommers to advertise it, I think we'd have the solution to a declining ham population.

Dave, WD8CIV

Date: Wed, 16 Jun 1999 10:25:38 EDT
From: N1ODL@aol.com
To: qrp-l@lehigh.edu
Subject: [42877] MILES per WATT
Message-ID: <c6da700a.24990de2@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Just got a QSL card from the Czec Republic which was one of the ones I was waiting for for my Miles per watt....According to the Buckmaster information, this is 3,897 miles on my 3 watts. I lost the name and address of the person to send this to for my certificate.
Does anyone hhave this info?
Thanks
Aron
Bedford, NH
N1ODL/qrp

Date: Wed, 16 Jun 1999 10:28:30 -0400
From: Mark Sailer <msailer@msailer.rhic.bnl.gov>
To: w1rfi@arrl.net, Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [42878] Re: TT2
Message-ID: <3767B48E.3295427@msailer.rhic.bnl.gov>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

"Ed Hare, W1RFI" wrote:

> Yesterday, I put in a minor mod as suggested in the original article to
> raise the power. I have also been powering it off of 2 series connected
> 9 V batteries. I measured 850 milliwatts yesterday in the Lab. The
> antenna is an inverted vee up about 40 feet or so.
>
> Now, if I can only do something about "glass arm." My fist was a bit
> shaky by the end of the night from that old hand key. :-)
>
> Thanks for the QSO.
>
> 73,
> Ed Hare, W1RFI

Ed,
    Is there any way the ARRL could make available copies of the original article and possible
followup artiles, for those of us who don't have the original QST.
I'm sure there are others on the list, besides me that would be interested.

Thanks for the contact the other night. Great to work a piece of history.

--

    Mark Sailer
    N2JTW

Date: Wed, 16 Jun 1999 10:53:21 -0400
From: Dan Halbert <halbert@bbn.com>
To: wphinizy@filenet.com
Cc: qrp-l@Lehigh.edu
Subject: [42879] Re: [42735] De Maw's 75-meter SSB Superhet Circuit
Message-ID: <199906161453.KAA11306@siu>

  >I wonder if anyone has built the 75-meter SSB Simple Superhet circuit by
  >Doug De Maw in the QRP Classics?
  > ...
  >I guess what I am really asking for is a commentary on the "goodness" of the
  >circuit. I had heard bad things about dual-gate mosfet mixers.

I wish I had some specific recommendations, and I'm not sure I have
the circuit in question in front of me. I have the "Simple Superhet
for 75-meter SSB" in an old ARRL Handbook I keep at work. I think that

might be your model.

But I have built a couple of dual-gate MOSFET superhets, and have been pleased with how they turned out. However, some trial and error brought out the following points:

1. Consider the mixing products of the harmonics of your VFO. The circuit I mentioned above has no filtering on the VFO output.

2. The front end filter should be tight and should at least be doubly-tuned. I used the filters in the appendix of Solid-State Design. With a singly-tuned front end, I got all kinds of extraneous out-of-band signals and mixing products on 40m. In your case, your filter is 7.0 to 7.5 instead of just the 40m ham band. This will let in a lot of SW broadcast and other non-ham stuff.

3. (Probably you are not doing this.) I have used the anti-parallel diode TX/RX switch a few times, to avoid complicated T/R switching. For example, this is used in W7EL's "Optimized QRP Transceiver". ASCII schematic:

```
----<|-----
|          |
----|>------ plus a 40m trap
```

However, on 40m, at night, the RF level was so high that I ended up with signals being being detected by the diodes, causing junky reception. I fixed this by putting two diodes in series:

```
--<|-<|----
|         |
---|>-|>---
```

Regards,
Dan, KB1RT

Date: Wed, 16 Jun 1999 08:14:54 -0700 (PDT)
From: Ron Stark <ku7y@dri.edu>
To: N1ODL@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [42880] Re: MILES per WATT
Message-ID: <Pine.SOL.3.96.990616081219.2794K-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 16 Jun 1999 N1ODL@aol.com wrote:

> Just got a QSL card from the Czec Republic which was one of the ones I was
> waiting for for my Miles per watt....According to the Buckmaster information,
> this is 3,897 miles on my 3 watts. I lost the name and address of the person
> to send this to for my certificate.
> Does anyone hhave this info?
> Thanks
> Aron
> Bedford, NH
> N1ODL/qrp

Hi Aron,

Congratulations!

Send an email to the QRP ARCI Awards Manager:

Steve Slavsky, N4EUK at:

radioham@erols.com

He will tell you what he needs.

DO NOT send the card!

cul,

73, Ron,   SOWP 5545M,

.........KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu...........Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Wed, 16 Jun 1999 10:43:09 -0500
From: mike1@urbancom.net (Dinelli, Michael)
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42881] ThighMaster, ButtMaster and now...
Message-ID: <000001beb80e$ef06b640$1dcbd6d8@mike1.urbancom.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Our original product of course, was ThighMaster. Last year we released the now famous ButtMaster. Ladies and gentleman, we are very proud to introduce our latest in the Master line... CodeMaster and for high speed ops the CodeMaster 2000.

73 de Mike, N9BOR
FISTS NR 4594
http://www.qsl.net/n9bor

di dah dit - The only roger beep you'll ever need.
My designated driver is a 12BY7A.
Solid State leaves me cold.

> If we can just get Suzanne Sommers to advertise it, I think we'd have
> the solution to a declining ham population.
>
> Dave, WD8CIV

Date: Wed, 16 Jun 1999 08:51:48 -0700 (PDT)
From: Patrick Franzis <old_radios@yahoo.com>
To: QRP list <qrp-l@Lehigh.EDU>
Subject: [42882] Equipment For Sale
Message-ID: <19990616155148.22238.rocketmail@web110.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

For the Items below, please contact n1qda@qsl.net and not me.
Thanks!

Radios for sale!!

I have the following radios for sale. Each of the prices are asking prices and no reasonable offer will be refused. Buyer should arrange for delivery.

Please contact me by email address n1qda@qsl.net

Kenwood TS-140S - HF Transceiver with 160 -10 M bands including the WARC bands. This radio is in excellent shape and comes with the manuals

and the hand mike along with a GE Desk mike. I am also throwing in a Radio Shack SWR meter with the radio. This is an excellent radio for either mobile or base use and is very reliable. This radio outputs 100W and supports all the modes. There is also a 250 HZ Cw filter installed.

Price : $600

Astron RS-20A Power Supply - 12V 20A Power Supply . Excellent condition.

Price : $100

Date: Wed, 16 Jun 1999 09:17:24 -0700
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: <w1rfi@arrl.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42883] Re: [Fwd: TT2 Revival]
Message-ID: <0c3301beb813$bafe25e0$140a0a0a@double_trouble.reliablemeters.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ed --

I looked for you just under 7040 last evening, but conditions were not great, and I never found you. After seeing a picture of the nice certificate you have created, I am determined to redouble my efforts this evening.

Let's see if we can't get W1FB's creation to span 3000 miles!

Mike K1MG

Date: Wed, 16 Jun 1999 12:26:11 -0400
From: "Tim Cook" <timcook@erinet.com>
To: "[Ten Tec] - Reflector" <tentec@contesting.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [42884] FS/Trade: Triton IV Station
Message-ID: <013401beb814$f31d6840$af735acf@timcook.erinet.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Sell or Trade:

Ten Tec Triton IV analog
    - optional noise blanker
    - optional cw filter
    - super qsk
    - PTO smooth/dial string doesn't sag
    - 100 watts on 80m to 65watts on 10m (I have set ALC to max 70w on 80 and 60w on 10)
    - overall condition very good (a dial light is burned out) (bandswitch might be a little dirty, sometimes you need to wiggle it a little when first changing bands to make contact, only once in a while, and not all bands)

Ten Tec Model 244 Digital Readout
    - very good condition
    - works excellent

Ten Tec model 262G Power supply
    - works fine
    - good condition

Ten Tec model 241 external xtal crystal oscillator
    - exc condition
    - never used it

In use daily, have manuals for everything except the 241 oscillator

Would like to sell whole package or trade towards a Omni-C or Corsair
Asking $350 + shipping for the package, make offer, I might consider splitting it up if I have enough buyers....
Thanks
Tim
NZ8J

Date: 16 Jun 1999 12:24:10 -0400
From: Glen Leinweber <leinwebe@mcmail.cis.McMaster.CA>

To: art@hawaii.rr.com
Cc: qrp-l:;
Subject: [42885] Re: OHR WM-2 Wattmeter [measuring power]
Message-ID: <1999Jun16.122410-0400@[130.113.234.7]>

In <3.0.6.32.19990615194633.00889480@pop-server>, Art Neilson, KH7PZ wrote:
>Hey, thanks for the great info!!! Here's what I did...
>I set my scope probe to x10 and clipped it to the positive pin on the
>bnc connector on the inside of my sw40+ and grounded the probe to the
>chassis.

OK, Art - fine job. You did all the math right. I take it that you had terminated your rig into a 50 ohm dummy load.

One caution when using the scope method of measuring....

The 10X probe must be carefully compensated. The probe is a "10X attenuator" type probe. At these high frequencies, much of the attenuation factor comes from the capacitive compensator working against the probe's cable capacitance (along with the scope's input capacitance). So if the probe compensation isn't set up right, you'll get a false sinewave amplitude reading from the scope. And since you have to SQUARE this voltage, calculated power can be a fair bit off.

What about *NOT* using the 10X probe? Nope, the capacitive loading of the coax connecting rig-to-scope will mean that your 50 ohm dummy load now includes a capacitive reactance. Using the 10X probe is a very good idea because it adds minimal capacitive loading.

So check your probe compensation before making this measurement. And keep in mind that most good scopes have about a 3% reading error, even within specified bandwidth. Because of the squaring, this error rises to 6% error on calculated power. And that's not including any error from the probe, or tolerance on the dummy load.

Date: Wed, 16 Jun 1999 11:40:24 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: art@hawaii.rr.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [42886] Re: OHR WM-2 Wattmeter
Message-ID: <3767D378.663D5921@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Only comment would be that the vertical gain adjustment of the scope could be off a tad, or the probe attenuation might not be 'exactly' a factor of ten. You didn't mention calibrating it before taking the measurement. A small amount of error in the voltage reading might account for what you are seeing. And the load resistance value could be off a bit.

You are dealing with such small 'errors' here in the final result that anything along the line being off just a 'negligible' amount could account for what you are getting.

Suppose that the true voltage was 3.39 instead of 3.4 (0.3% error); and that the probe factor was really 9.9 instead of 10 (1% error); and that the load resistor was really 51 ohms instead of 50 (2% error). All these errors would be well within expected ranges for the values and devices involved. The arithmetic now yields

3.39 * 9.9 = 33.56 vp-p

33.56/2 = 16.78 vp

16.78 * 0.707 = 11.86 vrms

(11.86 ^2)/51 = 2.76 watts

which agrees almost exactly with your Diamond instrument's reading.

Which meter is right?

I can only repeat the old Chinese proverb which says that a man wearing two watches never knows what time it is . . .   ;^)

72/73, George   AMA 98452   R/C since 1964

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE

"Art Neilson, KH7PZ" wrote:
> The OHR WM-2 shows ~2.5W and the Diamond shows ~ 2.75W. I'll make
> some more measurements at different output levels to see if the
> difference remains constant.
>
> 73's!! de KH7PZ Art in Hawaii

Date: Wed, 16 Jun 1999 12:58:22 -0400
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>
To: qrp-l@lehigh.edu
Subject: [42887] Re: [Fwd: TT2 Revival]
Message-ID: <3767D7AE.7279@arrl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Michael A. Gipe wrote:

> Ed --

> I looked for you just under 7040 last evening, but conditions were not
> great, and I never found you. After seeing a picture of the nice
> certificate you have created, I am determined to redouble my efforts
> this evening.

> Let's see if we can't get W1FB's creation to span 3000 miles!

Hi, Mike,

Well, you can probably work me when I am in Los Angeles next week. :-)

I think we could do a coast-coast QSO, but probably about 0700-1000
UTC. I will arrange a time to try this when I return.

73,
Ed, W1RFI

Date: Wed, 16 Jun 1999 12:35:59 EDT
From: Davewb4@aol.com
To: qrp-L@lehigh.edu
Subject: [42888] S.O.S.= Son of Sierra or Something on 17
Message-ID: <4d94d16b.24992c6f@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

With the DX pounding in on 17, I was looking for something QRP. Flipping
through the 1977 Handbook found the Sierra and the specs for the 17mtr plug
in. I wanted to keep the cost low so opted to use computer xtals (4.032mhz
for IF & 24mhz for pre mix) I had a bunch of 4.032 I had bought for 10cents

each so just had to find a 24mhz xtal. Set me back 98 cents.I was able to close match 6 of the 4.032 so was off and running. The lower IF & Premix required a change in inductance of L7 in the VFO and some value changes to the three poly caps.Ended up with a VFO tuning from 1.920 to 1.778 and a premix from 22.099 to 22.222 or 18.067 to 18.190. Tuning was accomplished using one of the air variables offered by Bill Hibbert last February. Had to modify the inner shaft to accommodate a 1/4 knob. Some changes to the premix and transmit filters was required for the new frequencies but an increase in inductance to L3, L4, L8, & L9 got things rolling. I changed the switching transistors only because I had 2N4401 & 2N3906 on hand, instead of the 2N4124 & 2N4126. No changes were made to the receiver or the AGC.I also wanted more power so changed the choke feeding the collector of the output transistor to an impedance ratio transformer and changed the output transistor from a 2N3553 to a MRF237(ECG 342) also changed the output filter from 5 sections to 7. The result is 6.3 watts on 17. I also outboarder the 500 ohm drive control so I can adjust output power drom 0 to 6 watts. The rig does not have the capability for plug in boards, its strictly a 17 mtr rig. At 14 volts supply, receive current is still about 30ma but key down transmit current jumps to 700ma at 6 watts. I have been running the rig at 3 watts and have been getting 559 reports all over Europe. I built it dead bug style, manhattan style, a little of Doug DeMaw, some wes Hayward and all the others we all copy from. I like to call it My Style.If there is any interest in all this I would be glad to supply all the changes.
72/73
Dave Rogers
WB4CHK
Plantation FL

Date: Wed, 16 Jun 1999 16:57:47 +0000
From: wd8civ@att.net
To: qrp-l@lehigh.edu (QRP-L Mailing List)
Subject: [42889] Re: ThighMaster, ButtMaster and now...
Message-ID: <19990616170122.RJTQ5374@webmail.worldnet.att.net>

> Our original product of course, was ThighMaster. Last year we released the
> now famous ButtMaster. Ladies and gentleman, we are very proud to introduce
> our latest in the Master line... CodeMaster and for high speed ops the
> CodeMaster 2000.

Mike,

I've used the Codemaster (tapes that I learned from for my
Novice license). And they were definitely a pain in the, umm, tail.

I -did- learn to copy 20 wpm on the Codemaster tapes. I can still

do it, too. Watch!

eist eist

See?

Dave, WD8CIV

Date: Wed, 16 Jun 1999 17:00:30 +0000
From: wd8civ@att.net
To: qrp-l@lehigh.edu (QRP-L Mailing List)
Subject: [42890] Re: New Antenna a Killer!
Message-ID: <19990616170232.RLQC9693@webmail.worldnet.att.net>

> While smiling to myself and thinking I really can still use a straight
> key, I started to unhook the cables from the rig. That's when I realized
> that the 1340 wasn't connected to the R7000, it was connected to the
> 2 meter antenna in the attic!

Jeff,

And they try to tell us that a shortened vertical won't work...

Dave, WD8CIV

Date: Wed, 16 Jun 1999 10:05:27 PDT
From: lane cox <lanecox@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [42891] desert ratt receiver
Message-ID: <19990616170527.11376.qmail@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

OK folks,
I got the desert ratt regerative receiver working last night. It tunes from about 5 MHz to 7.5MHz using the coil I wound on a old paper capacitor. The diameter is about 5/8 of an inch and has 5 turns with a tap and about 13 turns after that. I used number 22 insulated wire. I am using it with a capacitor which I think is about 50 pica farad. All of this stuff I got out of the junk pile.The receiver is tricky to use-if you touch the cap to tune it the volume will change and the regeration pot is very touchy to adjust. Maybe a ten turn pot could be used for the regen. pot-but the receiver receives the BBC very well and sounds good once you get it adjusted. Try one

you will like it!!
Lane Cox N6NLB.

Date: Wed, 16 Jun 1999 12:37:51 +0000
From: "Steven Weber" <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [42892] 17 meters
Message-ID: <199906161721.NAA13507@moose.ncia.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Why is it one can call CQ over and over and get no responce, but if
you answers someone else's CQ, they come right back with a good
signal report? Very strange.

By answering other CQ's and waiting in line, I made my first 17M
contacts last night, one state (Fl) and three countries, (Sweeden,
Bulgaria and Czech Republic). About 3 watts to 20M vert, 00:00 Z to
01:30Z. Band seemed to fold about 02:00.

72,
Steve, KD1JV in the white Mountains of New Hampshire
"melt solder"

Date: Wed, 16 Jun 1999 10:23:06 -0700
From: Stan Goldstein <stan@cruzio.com>
To: qrp-l@Lehigh.EDU
Subject: [42893] Re: OHR WM-2 Wattmeter
Message-ID: <3767DD7A.1114C193@cruzio.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

That's great , but is your scope calibrated ?
Or do you now have 3 watches ?
(hee hee)

Stan , N6XU

"Art Neilson, KH7PZ" wrote:
>
> Hey, thanks for the great info!!! Here's what I did...
> I set my scope probe to x10 and clipped it to the positive pin on the
> bnc connector on the inside of my sw40+ and grounded the probe to the
> chassis. I set my keyer for handkey and held down a paddle.
> 34V/2 = 17Vpeak = 2.88W
>
> If that's right, the OHR meter's not as accurate as my Diamond SX-200.
>
> The OHR WM-2 shows ~2.5W and the Diamond shows ~ 2.75W. I'll make
> some more measurements at different output levels to see if the
> difference remains constant.

Date: Wed, 16 Jun 1999 13:21:49 EDT
From: PDouglas12@aol.com
To: wa9flx@primary.net, qrp-l@lehigh.edu
Subject: [42894] Re: 2N2/40 Question
Message-ID: <433b4aeb.2499372d@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Dick,
You asked about where to find .2 mF caps required in the 2N2/40.
The .2 mF caps are non-critical, and you can safely use caps +/- 10% or perhaps even 20%. I think I used .22mF mono caps, which are common and are fine. Dan's Small Parts and Kits had 500 of these for $3.50 in his specials section in a recent catalogue. He is at http://www.fix.net.dans.html.

For the benefit of all, I found all the parts I needed for my 2N2/40 either in Dan's or in my Tech America catalog (For example,I got ten crystals from them at a buck apiece, and found six that were active enough to read reliably on my somewhat insensitive MFJ 259 which I used for its freq counter function, with three very close together for the filter. However, I certainly would have taken advantage of the offer of matched sets that Jim Kortge and Chuck and others made available, had they been there when I built my ugly 2N2!)
 Incidentally, if you have a copy of the schematic for the "sixpack" of simple projects (published and copyrighted in several places--sorry, I can't make copies...the authors don't want unauthorized reproduction, I understand)

it has an ideal crystal checker among the project set, which even has an output for a counter. That's what I used to check and match my crystals. I built mine "Manhattan/Paddyboard" style as a warmup for the 2N2. It gave me a lot of confidence that this was a good building system for the more complicated project.
I built it into a little Radio Shack plastic box and it is a valuable, permanent piece of test equipment in my workshop. Hope this helps.

72,
Preston WJ2V

Date: Wed, 16 Jun 1999 10:24:39 -0700
From: Allan G Taylor <k7gt@qsl.net>
To: qrp-l@lehigh.edu
Subject: [42895] Silver Mica cap dilemma
Message-ID: <3767DDD7.6466@qsl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

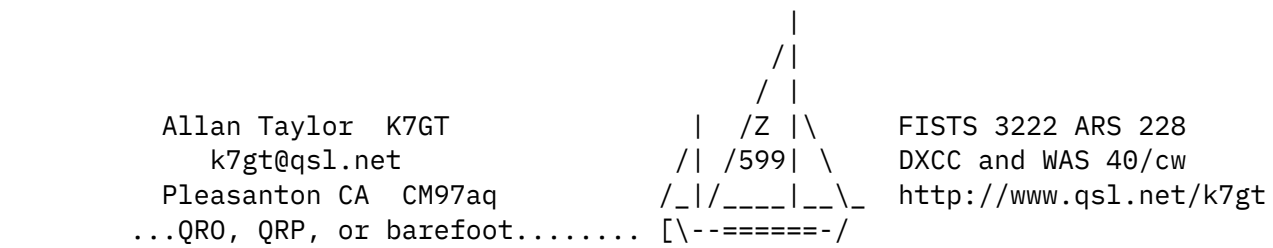
I recently bought a stash of Silver Mica capacitors from a member of this reflector. I have been busy and only recently sorted them out. I found, to my surprise, that the values are much higher than I had expected: the smallest values are nominal 1000pF, 1500pF, etc. with the biggest .047E-6F. As the reason for getting this collection was to modify/redesign output filters at QRP power levels, I am in great need of caps in the range 10 pF to about 820 pF. So... two requests:

1. If anyone can use the higher value caps, I can make you a real deal on them.

2. If anyone has some caps in the range 10 pF through 820 pF or so, I would like to negotiate a trade or ?

Back to our regular programming.

Allan K7GT
--



~~~~~~

Date: Wed, 16 Jun 1999 13:36:44 -0400
From: "Ed Tanton" <n4xy@att.net>
To: <wd8civ@att.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42896] RE: New Antenna a Killer!
Message-ID: <005e01beb81e$cd57de10$01010101@n4xy>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

It NEVER ceases to amaze me Dave, that: despite all the theories expounded at length about why this works and that doesn't; all the careful planning and yes: scheming; and all the arguing about how great this antenna IS and that antenna ISN'T; despite all of this, things like this happen to humble us all into realizing that RF WILL get out despite us!!!

Sorta what makes it fun, isn't it?!!!

72 / 73 Ed N4XY   email: <n4xy@arrl.net>

Date: Wed, 16 Jun 1999 13:42:36 -0400
From: "Ed Tanton" <n4xy@att.net>
To: <kd1jv@moose.ncia.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42897] RE: 17 meters
Message-ID: <005f01beb81f$9ef3b020$01010101@n4xy>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I think it is a kind of thrill of the unknown, randomness kind of thing: when you hear someone calling CQ, you KNOW who it is, and say: "Well, I don't need any 1's"... but when you call it yourself, you're so glad to get an answer, ANY answer, that "I don't need any 1's" is completely overshadowed by the sheer joy of just (often: "finally!!") getting an answer.
~~~~~~

72 / 73 Ed N4XY   email: <n4xy@arrl.net>

Date: Wed, 16 Jun 1999 10:54:06 -0700
From: Dave Barrett <DBarrett@creo.com>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [42898] Antenna Analyzer Diagram Needed
Message-ID: <CE0A40BFE0CDD111A2B800A0C99B83EB0131387D@msgcreo2.creo.bc.ca>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"

Hi All
       I'm in need of a diagram for an antenna analyzer similar to the MFJ unit that does the H.F. range and includes a freq. counter and some sort of signal source and resistance bridge.....(Can't afford to buy one but it'd sure make a doozy of a project :-)
Any idea's ?? Comments, suggestion welcome.   (No no, please don't tell me to put it where the sun don't shine :-)

Dave   VE7PCC Vancouver BC Canada   (Recumbenteer)

Date: Wed, 16 Jun 1999 12:23:03 -0600
From: Bruce Kizerian <kizerian@ced.utah.edu>
To: k7gt@qsl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [42899] Re: Silver Mica cap dilemma
Message-ID: <3767EB86.D64E5008@ced.utah.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Allan

My suggestion. Use ceramic NPO's (COG's). They are cheap, you can hand select them for value. Contrary to popular opinion, mica capacitors are NOT really that good. Accurate they are, but they have very poor dielectric absorption and are outrageously expensive. I am not sure about their leakage characteristics, but, in my opinion, modern high quality ceramics are the way to go. There was an excellent article years ago in Audio Magazine, written from the audio designer's point of view by Walt Jung titled "Picking

Capacitors". It is a "must read" for anyone with an interest in electronics.

I know I probably going to get flamed for this message--oh, well..

Bruce kk7zz

Date: Wed, 16 Jun 1999 14:40:18 -0400
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>
To: qrp-l@lehigh.edu
Subject: [42900] Re: New Antenna a Killer\!
Message-ID: <3767EF92.408E@arrl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

So, there I was one day, working hams with 250 milliwatts. I was chatting with a QRO guy in FL, who marveled at my low power. So, he went from 100 to 50 watts and asked if I could still hear him. :-) (Answer predictable.) He then went to 5 watts -- 589 to me. He then came back saying he was just barely moving his power needle -- 559. He then came back saying that his needle wasn't moving -- 529. "AS," he said. I then heard him way down in the noise, about 229 or so. I got most of what he had to say, but then asked him to crank the power back up just a tad; copy was too rough. He came back laughing in amazement -- he said he had run 5 watts into his dummy load. :-)

I use this in my QRP talks to local clubs -- always gets a big laugh!

73,
Ed Hare, W1RFI

Date: Wed, 16 Jun 1999 11:43:25 -0700
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: "QRP-L list" <qrp-l@Lehigh.edu>
Subject: [42901] Regen fun
Message-ID: <0c3d01beb828$209ec030$140a0a0a@double_trouble.reliablemeters.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"

Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang --

After I returned home from Dallas on Sunday, I unpacked my Desert Ratt 3 and put it on the desk next to my home computer. I wanted to see if it survived the American Airlines baggage churnolator, so I unrolled about ten feet of antenna, hung the ring on the door hinge, plugged in the headphones, and turned it on. Everything was just fine. While sitting there staring at the computer and listening to a discussion in Italian (no, I can't understand Italian, but I had just gotten off an airplane, and any romance language was music to my abused ears), I got to wondering what would happen if I plugged the computer speakers into the Desert Ratt. I have a nice set of Cambridge Soundworks powered speakers with bass box. So I unplugged the headphones and slipped in the speaker plug. WOW! Room filling Hi-Fi!

I tuned around until I found Radio Taipei, which was airing a program on dragon celebration music. I turned up the volume a bit, and wandered around the house unpacking, watering the plants, and generally puttering while listening to the house-filling sounds of the regen receiver.

Since then, I've been having a blast listening to shortwave broadcast with the regen. My only previous experience with a regen was a TenTec that I built a few years back. That was so twitchy and squirrelly that I never enjoyed using it, and ended selling it a while later to someone with more patience than I. But Paul's Desert Ratt has such smooth regen control, that this is almost like using a superhet. I can tune in a station in the evening, turn off the receiver, and turn it back on in the morning to listen to the same station without adjusting anything.

In the last few days, I've listened to Japanese country-western music, Indian music with Hawaiian slide guitar; I've heard witness to the power of Gawd, and I've gotten the latest news about Kosovo from Radio Deutschwelle. Did you know that Germany has supplied the largest number of troops for Kosovo -- more than the US or Britain? I also learned that this was an important psychological boost for the German people, since this was the first time the German army has entered a country to the cheers of the local populace since their ignominious defeat in WW II.

Last night I decided to check out the 30 meter ham band. I built the Desert Ratt to tune 9.5 MHz to 10.4, so I could cover the 31 meter broadcast band, WWV, and 30 meters. Thirty meters was pretty good last night, and I copied QSOs from stations in S. Dakota, California,

Colorado, Idaho, Arkansas, Texas, and Canada (didn't copy the
province, sorry). Tuning in CW stations takes a little more finesse
than AM, but is quite do-able.

I also found out from WWV that my watch is one minute 29 seconds fast.

Sure is fun!

Mike K1MG

PS: I've thrown up some photos from hamcomm on my web page. They are
not yet organized or optimized, so it will take some time to download,
but take a look if you want to see some familiar faces.
http://www.qsl.net/k1mg

Date: Wed, 16 Jun 1999 08:58:56 -1000
From: "Art Neilson, KH7PZ" <art@hawaii.rr.com>
To: leinwebe@mcmail.cis.McMaster.CA
Cc: qrp-l@lehigh.edu
Subject: [42902] Re: OHR WM-2 Wattmeter [measuring power]
Message-ID: <3.0.6.32.19990616085856.03333490@pop-server>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 12:24 PM 6/16/99 -0400, you wrote:
>In <3.0.6.32.19990615194633.00889480@pop-server>, Art Neilson, KH7PZ wrote:
>>Hey, thanks for the great info!!! Here's what I did...
>>I set my scope probe to x10 and clipped it to the positive pin on the
>>bnc connector on the inside of my sw40+ and grounded the probe to the
>>chassis.
>
>OK, Art - fine job. You did all the math right. I take it that you
>had terminated your rig into a 50 ohm dummy load.

Yes into a dry dummy load.

>   One caution when using the scope method of measuring....
>The 10X probe must be carefully compensated. The probe is a "10X attenuator"
>type probe. At these high frequencies, much of the attenuation factor
>comes from the capacitive compensator working against the probe's
>cable capacitance (along with the scope's input capacitance).
>So if the probe compensation isn't set up right, you'll get a false
>sinewave amplitude reading from the scope. And since you have to SQUARE
>this voltage, calculated power can be a fair bit off.

You are speaking of the probe's tunable capacitance? I've adjusted
the capacitance so that the tops and bottoms of the square wave from
the scopes 1Khz calibrator do not turn up or down at the ends, they
are as horizontal as my eyeball can tell. Is there a better way?

>   What about *NOT* using the 10X probe? Nope, the capacitive
>loading of the coax connecting rig-to-scope will mean that your
>50 ohm dummy load now includes a capacitive reactance. Using the
>10X probe is a very good idea because it adds minimal capacitive
>loading.

Yep, initially I used x1 attenuation then decided I'd better use
x10 for a more accurate reading.

>   So check your probe compensation before making this
>measurement. And keep in mind that most good scopes have about
>a 3% reading error, even within specified bandwidth. Because of the
>squaring, this error rises to 6% error on calculated power. And
>that's not including any error from the probe, or tolerance on the
>dummy load.

Would a RF probe connected to my DMM be better than the scope?
Where can I find a probe kit or directions on making one?
I did see instructions regarding a cigarette lighter probe
on the NJQRP web site however it seems limited to ~6.2W max
due to the 1N34 diode's avalance point.

73's, de KH7PZ Art in Hawaii


```
   __
  /  )    _/_  It is a capital mistake to theorise before one has data.
 /--/ __  /    Insensibly one begins to twist facts to suit theories,
/  (_/ (_<__   Instead of theories to suit facts.
                      -- Sherlock Holmes, "A Scandal in Bohemia"
```
Arthur W. Neilson III, KH7PZ
Bank of Hawaii Tech Support
art@hawaii.rr.com

Date: Wed, 16 Jun 1999 14:08:27 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: kd1jv@moose.ncia.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Subject: [42903] Re: 17 meters
Message-ID: <3767F62B.3A6CBADD@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Its largely a matter of timing, Steve. When you call CQ blind, there is
little likelihood that anyone will be listening to THAT exact frequency
at THAT exact time. But, when you answer a CQ, it is almost a certainty
that someone - the caller - is actually listening to THAT exact frequency
at the exact time that you call. The probability of a response goes from
0.0000001 to 0.98 or better.

Not too mysterious, but a nuisance, since making a random contact on what
appears to be a dead band is a hard proposition to get started in view of
the dismal probability. But, once two stations get together - blind luck,
really! - then the odds are very great that others can join in and pretty
soon the band is hopping.
You find this happening all the time on 10 and 6.

Interesting, eh?

72/73, George   AMA 98452   R/C since 1964

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE

Steven Weber wrote:
>
> Why is it one can call CQ over and over and get no responce, but if
> you answers someone else's CQ, they come right back with a good
> signal report? Very strange.

Date: Wed, 16 Jun 1999 19:04:05 +0000
From: wd8civ@att.net
To: qrp-l@lehigh.edu (QRP-L Mailing List)
Subject: [42904] RE: New Antenna a Killer!
Message-ID: <19990616191056.TCTT5374@webmail.worldnet.att.net>

> It NEVER ceases to amaze me Dave, that: despite all the theories expounded
> at length about why this works and that doesn't; all the careful planning
> and yes: scheming; and all the arguing about how great this antenna IS and

> that antenna ISN'T; despite all of this, things like this happen to humble
> us all into realizing that RF WILL get out despite us!!!

Ed,

No kidding! At my daytime job, this is exactly a pain in the neck. FCC Part 15 requirements for unintenional radiators (i.e. man-made noise sources like computers) can be a nightmare to a designer.

> Sorta what makes it fun, isn't it?!!!

Depends on whether your paycheck is riding on it. (Grin)

I guess the trick is getting the RF to come out -where- you want it, -when- you want it, and at the -right frequency-.

Dave, WD8CIV

Date: Wed, 16 Jun 1999 19:10:09 +0000
From: wd8civ@att.net
To: qrp-l@lehigh.edu (QRP-L Mailing List)
Subject: [42905] Re: 2N2/40 Question
Message-ID: <19990616191138.LPYS15914@webmail.worldnet.att.net>

> Incidentally, if you have a copy of the schematic for the "sixpack" of
> simple projects (published and copyrighted in several places--sorry, I can't
> make copies...the authors don't want unauthorized reproduction, I understand)
> it has an ideal crystal checker among the project set, which even has an
> output for a counter.

Preston,

Can you give us a reference (title and publisher)? Maybe the local library has it. Sounds like a valuable resource.

Dave, WD8CIV

Date: Wed, 16 Jun 1999 09:24:49 -1000
From: "Art Neilson, KH7PZ" <art@hawaii.rr.com>
To: w5yr@swbell.net
Cc: qrp-l@lehigh.edu
Subject: [42906] Re: OHR WM-2 Wattmeter
Message-ID: <3.0.6.32.19990616092449.00885730@pop-server>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:40 AM 6/16/99 -0500, you wrote:
>
> [words of wisdom deleted ...]
>
>Which meter is right?
>
>I can only repeat the old Chinese proverb which says that a man wearing
>two watches never knows what time it is . . .   ;^)

Speaking of time,

Now if I could only syncronize those watches to the NIST standard.

Actually, all the computers in my LAN here at home are syncronized to
the ntpd running on my FreeBSD firewall, and it is syncronized to the
local University time server which is syncronized to the atomic clock
at NIST in Boulder, CO. There undoubtably are small errors due to
network traffic and such, although ntpd does use an algorithm to
adjust the time given these errors. Maybe I should get a GPS receiver
and connect it to my firewall and run a stratum 1 ntpd time server?
That would be as accurate as I could get within reason... :^)

>
>72/73, George   AMA 98452   R/C since 1964

>Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
>AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
>QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE
>
>
>"Art Neilson, KH7PZ" wrote:
>> The OHR WM-2 shows ~2.5W and the Diamond shows ~ 2.75W. I'll make
>> some more measurements at different output levels to see if the
>> difference remains constant.
>>
>> 73's!! de KH7PZ Art in Hawaii
>

   --

```
  /  )    _/_  It is a capital mistake to theorise before one has data.
 /--/ __  /    Insensibly one begins to twist facts to suit theories,
/  (_/ (_<__   Instead of theories to suit facts.
                     -- Sherlock Holmes, "A Scandal in Bohemia"
```

Arthur W. Neilson III, KH7PZ
Bank of Hawaii Tech Support
art@hawaii.rr.com

Date: Wed, 16 Jun 1999 13:45:56 -0600
From: Niel Skousen <nskousen@scientech.com>
To: qrp-l@lehigh.edu
Subject: [42907] FS: IC737 last post
Message-ID: <4.1.19990616134054.009ff010@if.scientech.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well gang, This is the last post here - then eBay gets a shot....

Selling IC737 mint 100w HF w/ general coverage reciever, builtin antenna tuner, QRP (5w) from the front panel, built-in keyer, filters/if shift/notch all the goodies...

$675 OBO +shipping

I'm selling it for a friend, I physically have the radio. I've been through it with an IFR1500 and it is in perfect condition, never been on the air... Has a hand mic with it.

I'll give it till Monday then try eBay...

Niel

------- -.. . .-- .- --... ... .-   -------------
Niel Skousen: Sr.Eng, SCIENTECH.SPG/CFG, NUSI   WA7SSA
208.525.3742, 524.9229 FAX 529.4721 Idaho Falls ID
nskousen@scientech.com   DN33wm . . . -z

Date: Wed, 16 Jun 1999 19:31:54 +0000
From: wd8civ@att.net
To: qrp-l@lehigh.edu (QRP-L Mailing List)
Subject: [42908] Re: OHR WM-2 Wattmeter [measuring power]
Message-ID: <19990616194628.TREM9693@webmail.worldnet.att.net>

> You are speaking of the probe's tunable capacitance? I've adjusted
> the capacitance so that the tops and bottoms of the square wave from
> the scopes 1Khz calibrator do not turn up or down at the ends, they
> are as horizontal as my eyeball can tell. Is there a better way?

Art,

This is usually good enough.

> Would a RF probe connected to my DMM be better than the scope?
> Where can I find a probe kit or directions on making one?
> I did see instructions regarding a cigarette lighter probe
> on the NJQRP web site however it seems limited to ~6.2W max
> due to the 1N34 diode's avalance point.

RF probes, at least the diode detector kind, will show somewhere
between the peak voltage of the wave (less the diode drop) down to
the average value of the wave (which is about .636 of the peak value
for a sine wave, versus the RMS value which would be .707). A lot depends
on how quickly the capacitor in the RF probe discharges.

There was an article in QST back in the early 90's on using diodes in
wattmeters. It went into a very detailed discussion of diodes' nonlinear
behavior, and how to compensate for it. I'm sorry I can't remember the
exact issue, or even the author's name. I remember also seeing an article
on building a thermal wattmeter by laying a big coil of lossy coax
in a foam cooler full of water, then transmitting into it for a fixed period
of time and measuring the temperature rise. A (reasonably) simple formula
was used to calculate watts based on time, water mass, and temperature rise.

Again, I can't recall the issue or author, but it's worth researching.

Dave, WD8CIV

Date: Wed, 16 Jun 1999 15:50:48 -0400
From: Scott Howell <whowell@hq.nasa.gov>
To: qrp-l@lehigh.edu
Subject: [42909] tuner needed
Message-ID: <3.0.5.32.19990616155048.00818740@mail.hq.nasa.gov>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'm looking for a tuner that is qrp in size, but has plenty of
functionallity. I do have one of the LDG tuners, but wouldn't mind having
something that doesn't need pwr. Please let me know what would be a good
option. One that handles balanced and unbalanced would be good and also has

some room in the case for a mod.
Size not sure, but a few inches somewhere would be good.

tnx es 72/73 de Scott/n3byy

Date: Wed, 16 Jun 1999 15:57:35 -0400
From: Tom M <tjmc@erols.com>
To: unlisted-recipients:; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [42910] TT-Two to 49er??
Message-ID: <376801AF.596DE9B0@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

With all the talk of the TT2, I got out my 49er.

It's nice to see that 250mW still works! ... From LI,NY to the Pocono
Mts in PA (tnx for the chat Bob) this afternoon.

Now if I can only get my freq down to .039 .

72/3
Tom AA2VK

Date: Wed, 16 Jun 1999 13:07:54 -0700 (PDT)
From: Ron Stark <ku7y@dri.edu>
To: Stan Goldstein <stan@cruzio.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [42911] Re: OHR WM-2 Wattmeter
Message-ID: <Pine.SOL.3.96.990616130406.3316B-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 16 Jun 1999, Stan Goldstein wrote:

> That's great , but is your scope calibrated ?
> Or do you now have 3 watches ?
> (hee hee)
>
> Stan , N6XU

Opps, don't forget the dummy load..... Oh, you measured it as
51.2 ohms?? Well, what about the ohm meter??....

Darn, now we are up to about 5 watches!

Now you all see why I run 4.5 w in contests.....gives me room
to feel that even with some errors in measuring I'm still below
the 5 w level!

:-)

Hmmmmm, 12:55 already??? Wow, that doesn't seem right....I gotta
go find another watch......

73, Ron,   SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Wed, 16 Jun 1999 16:19:40 EDT
From: PDouglas12@aol.com
To: wd8civ@att.net, qrp-l@lehigh.edu
Subject: [42912] Six Pack xtal tester
Message-ID: <221130d2.249960dc@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Dave and QRP Gang,

Dave, you asked me about a reference for the six pack tester. Unfortunately,
the sources I can recall are the hamfest symposia like Pacificon and FDIM,
neither of which is permitted, as far as I know, to make further
reproductions of the six pack part of their materials. However, I do recall
that our friends at Kanga (http://www.bright.net/~kanga/kanga/) sell the kits
including the PC boards and parts for this and the five other simple projects
for a reasonable price. Check with them.

72,

Preston WJ2V

Date: Wed, 16 Jun 1999 15:56:48 -0400
From: "Alex Mendelsohn" <ai2q@ispchannel.com>
To: <n4xy@att.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42913] RE: New Antenna a Killer!
Message-ID: <000001beb832$5ed14080$5c32a7d0@mendelsohn.ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Yup! After installing an automatic antenna tuner on my friend's sailboat, i proceeded to hit the Tune button and have a great QSO on 20 meters. Later, we discovered that another crew member had disconnected the end-fed wire. The only antenna was a three-foot clip leading to the feed point!

Watch out for all those clip leads hanging off your RF signal generator terminals. And/or, make sure your sig-gen isn't in ham band! Hee. Hee.

Vy 73, AI2Q, Alex in Kennebunk, Maine .-.-.

> -----Original Message-----
> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of
> Ed Tanton
> Sent: Wednesday, June 16, 1999 1:37 PM
> To: Low Power Amateur Radio Discussion
> Subject: RE: New Antenna a Killer!
>
>
> It NEVER ceases to amaze me Dave, that: despite all the theories expounded
> at length about why this works and that doesn't; all the careful planning
> and yes: scheming; and all the arguing about how great this antenna IS and
> that antenna ISN'T; despite all of this, things like this happen to humble
> us all into realizing that RF WILL get out despite us!!!
>
> Sorta what makes it fun, isn't it?!!!
>
> 72 / 73 Ed N4XY   email: <n4xy@arrl.net>
>
>
>

Date: Wed, 16 Jun 1999 16:34:30 -0400
From: "Ed Hare, W1RFI" <w1rfi@arrl.net>
To: qrp-l@lehigh.edu
Subject: [42914] Re: TT2
Message-ID: <37680A54.12CE@arrl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Mark Sailer wrote:

> Ed,

> Is there any way the ARRL could make available copies of the original article
> and possible followup artiles, for those of us who don't have the original QST.
> I'm sure there are others on the list, besides me that would be interested.

> Thanks for the contact the other night. Great to work a piece of history.

The contact was my pleasure, Mark.

Ask and ye shall receive. We just added a link to a scanned .pdf file
of the original article to the Web Extra article. It is not a super
scan, though, although I found it just readable. If any of you can't
access the page, or find it just too hard to read, send me an SASE. I
will be gone next week, so expect a bit of a delay.

73,
Ed Hare, W1RFI
ARRL Lab

Date: Wed, 16 Jun 1999 14:38:09 -0600
From: "Carl Zmola" <zmola@campbellsci.com>
To: qrp-l@lehigh.edu
Subject: [42915] Re: Homebrew QSLs
Message-ID: <19990616203930649.AAA284@carl-zmola>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

David Hinerman <wd8civ@worldnet.att.net> wrote:

> At 03:50 PM 6/15/99 -0700, you wrote:

> >I downloaded the QSL maker program discussed here a while back. Now I'm
> >trying to find a reasonably priced source of blank postcard stock. The best
> >I can find is $0.20 a card at Staples in packages of 100. Are there are
> >better prices available?
>
> I should hope so. I used some light card stock that was available at the
> local office supply store. It's available in colors, and I used a buff
> color that was just a little darker than a manila file folder.

I use buff for some and magenta for others. It depends on how
obnoxious I feel.

> I forget how
> many cards I could fit on a sheet, but it was at least five.

I make it simple and get 4 cards per 8.5" x 11" sheet.

> I used Adobe
> Illustrator to create the card, then used cut-and-paste to duplicate it and
> arrange it to fit the sheet.

I used Corel Draw and the US map clipart picture. I then did an
insert of UTAH. Simple but it works. I print it on my laser printer.
It is great for low quantity runs. I need to change mine again since
I upgraded to a new callsign.

> >Also, has anyone been successful in producing nice-looking QSLs with a
> >monochrome printer? It would be pretty expensive in cartridges to print
> >solid color backgrounds with an inkjet. Or so I would rashly assume.

But you could use a solid color and then print a color graphic less
expensivly.

It's also just fun to sit down and come up with a new QSL card on
occasion. I am going to do one for each rig.

Good luck

Carl
AC7BB

Carl
zmola@campbellsci.com

Date: Wed, 16 Jun 1999 14:04:29 -0700

From: william h ross <k6mgo@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [42916] Fw: Re: New Antenna a Killer\!
Message-ID: <19990616.140430.-132681.1.k6mgo@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gee, Ed, you kind of tubed it didn't you. I mean now who is going to come
and hear you talk when they already know what you are going to say?
72, (just kidding, Ed)
Bill, K6MGO

From: "Ed Hare, W1RFI" <w1rfi@arrl.net>
TSubject: Re: New Antenna a Killer\!

So, there I was one day, working hams with 250 milliwatts. I was
chatting with a QRO guy in FL, who marveled at my low power. So, he
went from 100 to 50 watts and asked if I could still hear him. :-)
(
I use this in my QRP talks to local clubs -- always gets a big laugh!

73,
Ed Hare, W1RFI

Date: Wed, 16 Jun 1999 17:24:20 -0400
From: Mark Sailer <msailer@msailer.rhic.bnl.gov>
To: w1rfi@arrl.net, Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [42917] Re: TT2
Message-ID: <37681604.49072B5A@msailer.rhic.bnl.gov>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

"Ed Hare, W1RFI" wrote:

> Mark Sailer wrote:
>

> > Ed,
>
> > Is there any way the ARRL could make available copies of the original article
> > and possible followup artiles, for those of us who don't have the original
QST.
> > I'm sure there are others on the list, besides me that would be interested.
>
> > Thanks for the contact the other night. Great to work a piece of history.
>
> The contact was my pleasure, Mark.
>
> Ask and ye shall receive. We just added a link to a scanned .pdf file
> of the original article to the Web Extra article. It is not a super
> scan, though, although I found it just readable. If any of you can't
> access the page, or find it just too hard to read, send me an SASE. I
> will be gone next week, so expect a bit of a delay.
>
> 73,
> Ed Hare, W1RFI
> ARRL Lab

Thanks Ed. Gotta love this list.   :))
The article prints out better than it looks.

--

    Mark Sailer
    N2JTW

Date: Wed, 16 Jun 1999 17:52:36 -0400
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: QRP-L Discussion Group <QRP-L@Lehigh.edu>
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [42918] Which CW Filtre for FT-840?
Message-ID: <199906161755_MC2-799B-B95A@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain;
      charset=us-ascii
Content-Disposition: inline
Content-Transfer-Encoding: 7bit

Gang:

It's time for a CW filtre for my Yaesu FT-840. But which one, I wonder?
Anyone have any suggestions, including third party sources? Thanks in
advance for all input :-).

72,
--Doc Lindsey/K0EVZ
   DSBF
   PO BOX 6028
   Bismarck, ND 58506
   70511.3041@compuserve.com

Date: Wed, 16 Jun 1999 18:00:39 -0400
From: Andris Neimers <VitalVoice@compuserve.com>
To: QRP-L reflector <qrp-l@Lehigh.EDU>
Subject: [42919] 6 metre kit?
Message-ID: <199906161800_MC2-79B0-ED7C@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
      charset=ISO-8859-1
Content-Disposition: inline
Content-Transfer-Encoding: quoted-printable

The discussion about 6 metres gladdens my heart having got back on the ai=
r
after a house move and other complications which meant being QRX for near=
ly
one year!... I also do my 6 metre work through the Ten Tec transverter
hooked to my nearly asleep FT-ONE as the transceiver, so I am de facto QR=
P
unless I choose to switch on my 624 Kit 100w linear. The disappointment i=
n
all this is that in the interim I had hoped somebody would have come up
with a one unit 6m SSB QRP kit so that I could not only go mountaintoppin=
g
but solar power mountaintopping from some of the fine peaks here in Briti=
sh
Columbia... Anybody know of anything in the works???

72 and 73!

Andy/VE7FJT

(WWW/Internet columnist for The Canadian Amateur magazine) =

Date: Wed, 16 Jun 1999 18:18:20 EDT
From: Davewb4@aol.com
To: qrp-L@lehigh.edu
Subject: [42920] Son of Sierra   OOPS
Message-ID: <de8d0133.24997cac@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

The handbook date should read 1997 not 1977. There good but not that good!!
72/73
Dave Rogers

Date: Wed, 16 Jun 1999 17:25:51 -0500
From: "Chuck Adams K5FO" <adams@ticnet.com>
To: qrp-l@lehigh.edu
Subject: [42921] Crystal Checker
Message-ID: <E10uN2P-0003UT-00@pop3.ticnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Gang,

Since I don't know what is in each library, here
is a starting list of sources:

1. Encyclopedia of Electronic Circuits, Vol 1, Rudolf F. Graf
    page 178. This is basically the same one in the G-QRP 6-pack.

2. Encyclopedia of Electronic Circuits, Vol 2, Rudolf F. Graf
    page 150. This one is interesting and I'll have to construct
    it. It looks like it just might resonant in the series mode,
    but don't quote me on that just yet. Analysis to be done.

3. W1FB's Design Notebook by Doug DeMaw, W1FB from ARRL.
    Pages 192-194. A Tester for Crystal F, Q and R. FAR Circuits
    has the board for this project. For a tester you only need
    the FET Oscillator in the lower right of the schematic. The

MPF102 Q5 circuit.

4. Solid State Design for the Radio Amateur by Wes Hayard, W7ZOI, and Doug DeMaw, W1FB from ARRL. Page 20 Figure 6. Left hand circuit followed by detector circuit and amp to drive LED is basically the crystal checkers in 1 and 2.

5. ARRL Handbook 1995 or later. There is a circuit on page 14.24 that I want to get around to checking out. Anyone else in this group "been there done that"?

6. Radio Handbook by William I. Orr, W6SAI, by Sams. Page 14-4.

And of course there are many more, but surely everyone has at least one of the above. Shame on you if you don't..... :-)

FYI

Chuck Adams K5FO adams@ticnet.com http://www.qsl.net/k5fo/

Date: Wed, 16 Jun 1999 18:42:55 -0700
From: "K. Babcock, N8WVD" <casey@mufn.org>
To: <qrp-l@lehigh.edu>
Subject: [42922] ic-720 @ qrp
Message-ID: <000c01beb862$bc95eb00$02da6cc6@mufn.mufn.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey, folks:

My friend has acquired a used Icom ic-720 and wishes to reduce power out on cw. I have no experience whatsoever with this rig,. Can it be throttled back for qrp use?

Kent, N8WVD

Date: 16 Jun 1999 17:51:56 -0500

From: "rohre" <rohre@arlut.utexas.edu>
To: qrp-l@lehigh.edu
Subject: [42923] Efficient Vertical antenna,mobile home lot
Message-ID: <n1282566955.95938@msmailgw1.arlut.utexas.edu>

For the mobile home lot antenna problem:

The restriction on vertical projection above the roof of the home, probably means they would not appreciate a big capacity hat.

However, there is nothing in your post to preclude you from putting up one of the classic efficient antennas. A base fed vertical as high as you can go, and from its top, a light blue hook up wire run horizontally or sloping to a support such as a bird house on a pole, or similar to disguise the purpose, and then you have a full size wire and tubing vertical. Tie the hook up wire off with nylon fishing line for insulation and low profile support. You will have almost a stealth wire.

By feeding the base with a balun and ladder line, you could tune the thing on all bands from the shack. (Coax or unbalanced side of balun to the vertical base and earth/ radial leads, 4:1 side to ladder line or twin lead). To go back into the shack convert from ladder line to balun and then coax, or better still, put a board in the window sill, put feed thru insulators made of either surplus ceramics or homemade from plastic and all thread, into the board, and hook up there to your ladder line. If your shack is on the wall having the window use ladder line all the way to your antenna matching unit.

This old antenna idea is sometimes called the "UP and OUT antenna". I am surprised I did not see any others mentioning it while I was off list.

Good Luck, and do put in good radials, at least 0.125 wavelength long in the directions you want to work.

72, Stuart K5KVH

Date: Wed, 16 Jun 1999 18:56:12 -0400
From: "Richard Brummer" <obvious@bestweb.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42924] Re: Which CW Filtre for FT-840?
Message-ID: <007201beb84b$7100fa20$a405b3d8@default>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Doc,

I have always been pleased with the International Radio filters. They make a 250 Hz and a 500 Hz filter for the FT-840.

Keep in mind that I used Inrad 400 Hz filters vs. Kenwood 500 Hz filters in a TS-430S and a TS-430S.

The URL is : http://www.qth.com/INRAD/ft-840.htm

Standard disclaimers apply for both Inrad and Kenwood -- just a satisfied customer.

73,
Dick K2REB

End of QRP-L Digest 1490
****
